**Environmental Services** 

Peachtree Center Tower 230 Peachtree Street, N.W. Suite 500 Atlanta, GA 30303

Telephone: 404-681-0933 Fax: 404-681-0894 DATE REPORT ACCEPTED 8-24-94 SEP 131994

DISPOSITION NERAD

SAM SIGNATURE PYNOME

PYNO

July 21, 1994

Mr. Narindar Kumar, Chief

Site Assessment Section

U.S. Environmental Protection Agency

345 Courtland Street, NE Atlanta, Georgia 30365

Subject: Site Inspection Prioritization

Spectrum Printing

Covington, Newton County, Georgia

EPA ID GAD982111767

Re: BVWS Contract Nº 68-W9-0055 - Task Order 6, Amendment 2

**BVWS Project 52012.319** 

Document Control BVWS-SIP-RD-033

Dear Mr. Kumar:

Dynamac Corporation has been tasked by BLACK & VEATCH Waste Science, Inc., under U.S. Environmental Protection Agency (EPA) Contract Nº 68-W9-0055 to conduct a Site Inspection Prioritization for Spectrum Printing (the facility) in Covington, Newton County, Georgia. In accordance with the scope of work for this task order, a preliminary Hazard Ranking System (HRS) score was prepared to determine the need for future activities at the site.

Spectrum Printing, an inactive printing facility, is located at 4132 U.S. Highway 278 in a commercial area of Covington, Georgia (Ref. 1; 2, p. 1). The facility operated from January 1987 until May 1987, when the owner filed for bankruptcy. Prior to January 1987, the facility housed a local newspaper's printing operations for an unspecified length of time (Ref. 2, p. 1). As of 1989, the property was in the trusteeship of Richard Ellenburg, an Atlanta attorney; the current ownership and use of the property are unknown (Ref. 3, p. 1). While operational, the facility consisted of a building and a paved area which was completely accessible via a public road (Ref. 2, p. 1).

During an investigation and assessment of the facility which were conducted between August 5 and August 24, 1987, EPA Region IV Technical Assistance Team (TAT) and Georgia Department of Natural Resources personnel observed approximately 260 to 275 drums abandoned on the 1.5-acre property (Refs. 2, p. 1; 3, p. 1; 4; 5, pp. 2, 3). Some of the drums, which contained a variety of paint sludges, solvents and waste inks, were open and collecting rainwater. Other drums were overturned and the wastes were spilled on the paved area and the ground around the drums (Refs. 2, p. 2; 4; 5, p. 2). Four composite samples of drummed and spilled waste material were collected and one composite soil

Mr. Narindar Kumar July 21, 1994 Page 2

sample was collected near a pipe entering the onsite building. Analysis of the waste samples revealed the presence of several organic and inorganic constituents, including chromium, lead, zinc, xylenes, benzene, toluene and methylene chloride. Analysis of the composite soil sample was limited to volatile organic compounds and revealed no detectable levels of these constituents (Ref. 2, pp. 4, 6, Annex A). During March and April 1989, TAT and other subcontractor personnel conducted a removal of a 1,000-gallon storage tank and 257 drums of waste material (Ref. 3, pp. 6, 7). The wastes were disposed at Tricil Recovery Service, Inc., in Bartow, Florida, and at Rineco Chemical Industries in Benton, Arkansas (Refs. 3, p. 6; 6). Available file material does not indicate that any followup sampling was conducted.

A preliminary HRS score for Spectrum Printing was calculated using the Site Inspection Worksheets. Pathways evaluated include groundwater migration, surface water migration, soil exposure and air migration. The score reflects a Hazardous Waste Quantity value of 10 for all migration pathways based on the total 1.5-acre area of the facility. Because no soil sampling has been conducted since the removal, maximum contaminant characteristic values were assumed for all pathways to present a "worst-case" scenario.

Residents living within 4 miles of the facility obtain potable water from the Newton County Water and Sewerage Authority, the City of Covington or private wells (Refs. 1; 7; 8; 9). The two municipal water systems supply potable water obtained from an intake on the Alcovy River and from an 820-acre reservoir located on Cornish Creek northeast of Covington (Refs. 7; 8; 9). An estimated 387 persons were assumed to obtain potable water from private wells within a 4-mile radius of the facility (Refs. 1; 10). The groundwater pathway score was limited by low overall target values.

According to available file material, runoff from the facility would either enter storm drains or flow into Dried Indian Creek located approximately 0.25 mile southeast of the facility (Refs. 1; 4, pp. 3, 4). The surface water migration pathway was evaluated based on a potential to release and it was assumed that runoff would flow overland and enter the nearest perennial surface water bodies shown on topographic maps of the area (either Dried Indian Creek to the southeast or an unnamed pond to the west), both of which eventually empty into the Yellow River, a known fishery. The 15-mile surface water migration pathway ends in the Yellow River (Refs. 1; 11; 12; 13). For both overland flow pathways, however, runoff would have to flow more than 0.25 mile through an urban area to reach perennial surface water (Ref. 1). Neither of the surface water intakes utilized by the municipal water departments in the area are located along the surface water migration pathway (Refs. 1; 7). The range of one endangered plant species, Michaux's sumac (Rhus michauxii), includes Newton County, and this species was evaluated as a potential contamination target for the environmental threat although the specific location of the species is unknown (Ref. 14). No wetlands are located along the surface water migration pathway (Ref. 1). The surface water migration pathway score was limited by a low likelihood of release and low target values.

Mr. Narindar Kumar July 21, 1994 Page 3

Land use within a 4-mile radius of Spectrum Printing is a mixture of urban, commercial/industrial, suburban and rural (Ref. 1). A total of 2,905 people reside within 1 mile of the facility (Ref. 15). The current status of the facility is unknown; however it was assumed that workers are present onsite. The soil exposure pathway score was evaluated based on an assumption of surficial contamination and was limited by low target values. The air pathway was scored based on potential to release; no air samples have been collected. A total of 29,164 people reside within 4 miles of Spectrum Printing (Ref. 15). The ranges of several endangered and threatened species include Newton County and the entire state of Georgia; however, specific locations of these species are unknown (Ref. 14). Approximately 725 acres of wetlands are located within 4 miles of the facility, although the majority of these wetlands are no closer than 3 miles (Ref. 1).

### HRS SCORING SUMMARY

Based on the removal actions which have taken place at the facility and due to low target values and pathway scores, no further action is recommended for Spectrum Printing.

Attached are all references used during this evaluation. If you have any questions or comments, please contact Victor Blix at (404) 594-2500.

Sincerely,

DYNAMAC CORPORATION

Lori C. Conway

avid L. Rusher Site Manager Vice President Southern Division

Enclosure

cc: Victor Blix, BVWS SIP Project Manager

File

### REFERENCES

- 1. U.S. Geological Survey, 7.5 minute series Topographic Quadrangle Maps of Georgia: Milstead 1964 (Photorevised [PR] 1985), Jersey 1964 (PR 1985), Covington 1964 (PR 1985), Porterdale 1964 (PR 1985), scale 1:24,000.
- 2. Roy F. Weston, Inc., SPER Division, Investigation Report for Spectrum Printing Site, Covington, Georgia, prepared for Bill Klutz, On-Scene Coordinator, EPA Region IV, under TDD No. 04-8708-03-1225 (September 17, 1987).
- 3. Roy F. Weston, Inc., SPER Division, Spectrum Printing Removal Actions, Covington, Newton County, Georgia, prepared for Bill Klutz, On-Scene Coordinator, EPA Region IV, under TDD No. 04-8810-26-2026 and No. 04-8810-26a-2213 (May 5, 1989).
- 4. Potential Hazardous Waste Site Preliminary Assessment (EPA Form 2070-12) for Spectrum Printing, Covington, Georgia. Filed by John Ashley Brown, EPA/TAT, September 29, 1987.
- 5. Potential Hazardous Waste Site, Site Inspection Report (EPA Form 2070-13) for Spectrum Printing, Covington, Georgia. Filed by John Ashley Brown, EPA/TAT, August 24, 1987.
- 6. Uniform Hazardous Waste Manifests for Spectrum Printing for wastes shipped March 21 through April 18, 1989, 6 pages.
- 7. Brian Allen, Executive Assistant, Newton County Commissioner's Office, telephone conversation with Lori Conway, Environmental Specialist, Dynamac Corporation, May 10, 1994. Subject: Water supply and use for the Newton County area.
- 8. Walter Thompson, Laboratory Supervisor, Covington Water Plant, telephone conversation with Lori Conway, Environmental Specialist, Dynamac Corporation, May 11, 1994. Subject: Water supply and use for the City of Covington.
- 9. Grady Ridgeway, Director, Newton County Water and Sewerage Authority, telephone conversation with Lori Conway, Environmental Specialist, Dynamac Corporation, May 10, 1994. Subject: Water supply and use for Newton County.
- 10. U.S. Department of Commerce, Bureau of the Census, 1990 Census of Population and Housing: Summary Population and Housing Characteristics Georgia, 1990 CPH-1-12 (Washington, D.C.: GPO, 1991), excerpt, 3 pages.
- 11. Roy Morris, Game Conservation Officer, Newton County, telephone conversation with Coby C. Dolan, Dynamac Corporation, May 12, 1992. Subject: Fishing in the Yellow River.

- 12. U.S. Department of Commerce, <u>Rainfall Frequency Atlas of the United States</u>, Technical Paper Number 40 (Washington, D.C.: GPO, 1961), excerpt, 3 pages.
- 13. W.R. Stokes III and R.D. McFarlane, <u>Water Resources Data: Georgia, Water Year 1992</u>, Water Data Report GA-92-1 (Atlanta, Georgia: U.S. Geological Survey, 1993), excerpt, 3 pages.
- 14. U.S. Fish and Wildlife Service, <u>Endangered and Threatened Species of the Southeastern United States (The Red Book)</u>, Vol. 1 (Washington, D.C.: GPO, 1992), excerpt, 4 pages.
- 15. U.S. Environmental Protection Agency, <u>Graphical Exposure Modeling System</u> (GEMS) Data Base, compiled from U.S. Bureau of the Census data (1990).

Site Name: Spectrum Printing	DRAFT
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Covington, Newton County, Georgia Location:

### **GROUNDWATER MIGRATION PATHWAY SCORESHEET**

### Factor Categories and Factors

	Likelihood of Release to an Aquifer	Maximum Value	Value Assigned	<del></del>
1.	Observed Release	550	0	
2.	Potential to Release			
	2a. Containment	10	10	
	2b. Net Precipitation	10	6	
	2c. Depth to Aquifer	5	3	
	2d. Travel Time	35	25	
	2e. Potential to Release			
	(lines $2a \times [2b + 2c + 2d]$ )	500	340	
3.	Likelihood of Release			
	(higher of lines 1 and 2e)	550		340
	Waste Characteristics			
4.	Toxicity/Mobility	a	10,000	
5.	Hazardous Waste Quantity	a	10	
6.	Waste Characteristics	100		18
	Targets			
7.	Nearest Well	50	5	
8.	Population			
	8a. Level I Concentrations	b	0	
	8b. Level II Concentrations	ь	0	
	8c. Potential Contamination	b	4	
	8d. Population (lines 8a + 8b + 8c)	b	4	
9.	Resources	5	5	
10.	Wellhead Protection Area	20	0	
11.	Targets (lines $7 + 8d + 9 + 10$ )	b		14
	Groundwater Migration Score for an Aquifer			
12.	Aquifer Score ([lines 3 x 6 x 11]/82,500) <sup>c</sup>	100		1.04
	Groundwater Migration Pathway Score			
13.	Groundwater Migration Pathway Score $(S_{gw})^c$ (highest value from line 12 for all	400		
	aquifers evaluated)	100		1.04

Maximum value applies to waste characteristics category.
 Maximum value not applicable.
 Do not round to nearest integer.

Site Name:

Spectrum Printing

**DRAFT** 

Location:

Covington, Newton County, Georgia

### SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET

Fact	or Categories and Factors	Maximum Value	Value Assigned	
DRI	NKING WATER THREAT			
	Likelihood of Release			
1. 2.	Observed Release Potential to Release by	550	0	
<i></i> .	Overland Flow			
	2a. Containment	10	10	
	2b. Runoff	25	1	
	2c. Distance to Surface Water	25	9	
	2d. Potential to Release by			
	Overland Flow	500	100	
•	(lines 2a x [2b + 2c])	500	100	
3.	Potential to Release by Flood	10	10	
	<ul><li>3a. Containment (Flood)</li><li>3b. Flood Frequency</li></ul>	10 50	<u>10</u> 7	
	3c. Potential to Release	30		
	by Flood (lines 3a x 3b)	500	10	
4.	Potential to Release	300	<del></del>	
	(lines 2d + 3c, subject to			
	a maximum of 500)	500	<u>170</u>	
<b>5</b> .	Likelihood of Release			
	(higher of lines 1 and 4)	550		<u>170</u>
	Waste Characteristics			
6.	Toxicity/Persistence	a	10,000	
7.	Hazardous Waste Quantity	a	10	
8.	Waste Characteristics	100		18
	Targets			
9.	Nearest Intake	50	0	
10.	Population		_	
	10a. Level I Concentrations	b b	0	
	10b. Level II Concentrations	ь	0	
	10c. Potential Contamination 10d. Population (lines 10a + 10b + 10c)	b	0	
11.	Resources	5	5	
12.	Targets (lines $9 + 10d + 11$ )	b		5
	Drinking Water Threat Score			
13.	Drinking Water Threat Score			
	([lines $5 \times 8 \times 12]/82,500$ ,			
	subject to a maximum of 100)	100		0.19

Site	Name:

Spectrum Printing

**DRAFT** 

Location:

Covington, Newton County, Georgia

### SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET, Continued

Facto	or Categories and Factors	Maximum Value	Value Assigne	d		
HUN	HUMAN FOOD CHAIN THREAT					
	Likelihood of Release					
14.	Likelihood of Release (value from line 5)	550		<u>170</u>		
	Waste Characteristics					
15. 16. 17.	Toxicity/Persistence/Bioaccumulation Hazardous Waste Quantity Waste Characteristics	a a 1,000	5x10 <sup>8</sup>	180		
	<u>Targets</u>					
18. 19.	Food Chain Individual Population 19a. Level I Concentrations 19b. Level II Concentrations	50 b b	<u>20</u> <u>0</u>			
20.	<ul> <li>19c. Potential Human Food</li></ul>	b b b	0	20		
	Human Food Chain Threat Score					
21.	Human Food Chain Threat Score ([lines 14 x 17 x 20]/82,500, subject to a maximum of 100)	100		7.42		
ENV	TRONMENTAL THREAT					
	Likelihood of Release					
22.	Likelihood of Release (value from line 5)	550		170		
	Waste Characteristics					
23. 24. 25.	Ecosystem Toxicity/Persistence/ Bioaccumulation Hazardous Waste Quantity Waste Characteristics	a a 1,000	5x10 <sup>8</sup>	180		

Site		Spectrum Printing		RAFT	
Loca	ation: (	Covington, Newton County,	Georgia		
SU	RFACE WA	TER OVERLAND/FLOOD	MIGRATION COMPONEN	T SCORESHEET, C	oncluded
Fact	or Categorie	s and Factors	Maximum Value	Value Assigned	
EN	/IRONMEN	TAL THREAT (concluded	)		
	<u>Targets</u>				
26.	Sensitive E	nvironments			
-0.		I Concentrations	b	0	
		II Concentrations	b	0	
		itial Contamination	b	<u>~</u> 1	
		tive Environments			
		26a + 26b + 26c	b	1	
27.	Targets	200 1 200 1 200)		<del></del>	
27.	(value from	1 line 26d)	b		1
	Environme	ntal Threat Score			
28.	Environme	ntal Threat Score			
	([lines 22 x	x 25 x 27]/82,500,			
	subject to a	maximum of 60)	60	_	0.37
SUR	RFACEWAT	TER OVERLAND/FLOOD	MIGRATION COMPONEN	T SCORE FOR A WA	ATERSHED
29.	Watershed (lines 13 + subject to a		100		7.98
SUR	•	ŕ	MIGRATION COMPONE	ENT SCORE	_
30.	(highest sco	t Score (S <sub>of</sub> ) <sup>c</sup> ore from line 29 ersheds evaluated, a maximum of 100)	100		<u>7.98</u>

Maximum value applies to waste characteristics category.

Maximum value not applicable.

Do not round to nearest integer.

Not evaluated.

Site Name:

DRAFT

Location:

Spectrum Printing
Covington, Newton County, Georgia

### SOIL EXPOSURE PATHWAY SCORESHEET

Fact	or Categories and Factors	Maximum Value	Value Assigned	
RES	IDENT POPULATION THREAT			
	Likelihood of Exposure			
1.	Likelihood of Exposure	550		550
	Waste Characteristics			
2.	Toxicity	<b>a</b>	10,000	
3. 4.	Hazardous Waste Quantity Waste Characteristics	a 100	10	18
7.	Targets	100	•	
5.	Resident Individual	50	0	
6.	Resident Population	ь		
	<ul><li>6a. Level I Concentrations</li><li>6b. Level II Concentrations</li></ul>	b	0	
	6c. Resident Population			
	(lines 6a + 6b)	ь	0	
7.	Workers	15	5	
8.	Resources	5	0	
9.	Terrestrial Sensitive			
	Environments	d	0	
10.	Targets (lines $5 + 6c + 7 + 8 + 9$ )	ь		5
	Resident Population Threat Score			
11.	Resident Population Threat			
	([lines 1 x 4 x 10]/82,500)	ь		0.60
NEA	ARBY POPULATION THREAT			
	Likelihood of Exposure			
12.	Attractiveness/Accessibility	100	10	
13.	Area of Contamination	100		
14.	Likelihood of Exposure	500		5
	Waste Characteristics			
15.	Toxicity	a	10,000	
16.	Hazardous Waste Quantity	a	10	
17.	Waste Characteristics	100		18

Site Name:	Spectrum Printing	DRAFT
Location:	Covington, Newton County, Georgia	

### SOIL EXPOSURE PATHWAY SCORESHEET, Concluded

Fact	or Categories and Factors	Maximum Value	Value Assigned
NEA	ARBY POPULATION THREAT (Concluded)		
	<u>Targets</u>		
18. 19. 20.	Nearby Individual Population Within 1 Mile Targets (lines 18 + 19)	1 b b	<u>1</u> 5
	Nearby Population Threat Score		
21.	Nearby Population Threat ([lines 14 x 17 x 20]/82,500)	b	0.01
SOI	L EXPOSURE PATHWAY SCORE		
22.	Soil Exposure Pathway Score $(S_{soil})^d$ (lines 11 + 21, subject to a maximum of 100)	100	0.61

<sup>&</sup>lt;sup>a</sup> Maximum value applies to waste characteristics category.

b Maximum value not applicable.

Do not round to nearest integer.
 No specific maximum value applies to factor. However, a pathway score based solely on sensitive environments is limited to a maximum value of 60.

Spectrum Printing

DRAFT

Location:

Covington, Newton County, Georgia

### AIR MIGRATION PATHWAY SCORESHEET

### Factor Categories and Factors

	Likelihood of Release	Maximum Value	Value Assigned	
1.	Observed Release	550	0	
2.	Potential to Release			
	2a. Gas Potential to Release	500		
	2b. Particulate Potential to Release	500		
	2c. Potential to release (higher of			
	lines 2a and 2b)	500	500*	
3.	Likelihood of Release			
	(higher of lines 1 and 2c)	550	500	* -
	Waste Characteristics			
4.	Toxicity/Mobility	а	10,000	
5.	Hazardous Waste Quantity	а	10	
6.	Waste Characteristics	100	19	<u>3</u>
	Targets			
7.	Nearest Individual	50	20	
8.	Population			
	8a. Level I Concentrations	b	0	
	8b. Level II Concentrations	b	0	
	8c. Potential Contamination	b	30	
	8d. Population (lines 8a + 8b + 8c)	b	30	
9.	Resources	5	<u>5</u>	
<b>10</b> .	Sensitive Environments			
	10a. Actual Contamination	d	0	
	10b. Potential Contamination	đ	0.08	
	10c. Sensitive Environments			
	(lines 10a + 10b)	d	0.08	
11.	Targets (lines $7 + 8d + 9 + 10c$ )	b	55	2
	Air Migration Pathway Score			
12.	Air Migration Pathway Score (Sair)c			
	([lines 3 x 6 x 11]/82,500)	100	6.00	<u>)</u>

<sup>&</sup>lt;sup>a</sup> Maximum value applies to waste characteristics category.

b Maximum value not applicable.

<sup>&</sup>lt;sup>c</sup> Do not round to nearest integer.

<sup>&</sup>lt;sup>d</sup> No specific maximum value applies to factor. However, a pathway score based solely on sensitive environments is limited to a maximum value of 60.

<sup>\*</sup> Default value.

<sup>-</sup> Not evaluated.

### <u>U.S. EPA REGION IV</u>

# **SDMS**

### **Unscannable Material Target Sheet**

DocID:	8482-3	Site ID:	CeAD982111767	
Site Namc:	Stectrum	printing	·	
				·
Nature of Ma	aterial:			
Map:	2		Computer Disks:	
Photos:	-	<del>-</del>	CD-ROM:	
Blueprints:	<del></del>	_	Oversized Report:	
Slides:		<del></del>	Log Book:	
Other (desc	cribe):			
Amount of	material:	<u>.</u>		· · · · · · · · · · · · · · · · · · ·
*Please o	contact the app	ropriate R	ecords Center to view t	he material.*

PA/SI TO B. Jancelon 19/8/89

### INVESTIGATION REPORT

FOR

#### SPECTRUM PRINTING SITE

COVINGTON, GEORGIA

FROM: J. A. Brown

TAT, Region IV

TO: Bill Klutz, OSC

EPA, Region IV

Technical Direction Document TDD #04-8708-03-1225 TAT #04-F-00929

DATE: 17 September 1987

Technical Assistance Team
Roy F. Weston, Inc., SPER Division
100 Atlanta Technology Center, Suite 120
1575 Northside Dr., NW,
Atlanta, Georgia 30318

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- III. DISCUSSION OF SAMPLING ACTIVITES
  - IV. METHODOLOGY AND QUALITY CONTROL
  - V. DISCUSSION OF ANALYTICAL RESULTS

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Figure 1 - Site Location Map

Figure 2 - Site Map Showing Sample Locations

ANNEXES

Annex A - Lab Results

Annex B - QA/QC Data

Annex C - Photographs

#### I. INTRODUCTION

The Region IV Technical Assistance Team (TAT) of Roy F. Weston, Inc. conducted an investigation and assessment of the Spectrum Printing Site between the 5th and 24th of August 1987. The investigation performed by J. A. Brown (project officer), J. C. Lan and J. Lathram was conducted at the request of the U. S. EPA Region IV in accordance with the provisions of Technical Direction Document (TDD) 04-8708-03.

Bill Klutz, Region IV EPA, and Ramona Klein of the Georgia Department of Natural Resources also participated in the investigation.

The purpose of this investigation is to document a release to the environment of a hazardous substance, pollutant or contaminant as mandated by Section 104(e) of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA).

### II. SITE CHARACTERIZATION

#### A. Site Location

The site described herein as Spectrum Printing is located in Covinton Georgia's commercial district at 4132 U.S. Highway 278. The coordinates of the site are latitude 33 degrees 36 minutes and 15 seconds and longitude 83 degrees 52 minutes and 3 seconds. The approximately 275 drums of interest are stockpiled on a paved area behind a medium sized industrial building formerly known as Spectrum Printing. A public road is contiguous to this paved area and from the road open drums containing printing process and waste materials are observable and accessable.

#### B. History and Waste Disposal Practices

From January 1987 until May 1987, the building at 4132 U.S. Highway 278 in Covington, Georgia was used as a printing company called Spectrum Printing. Spectrum Printing's owner Ralph Preddy filed for bankruptcy in May of 1987. Prior to January 1987, the building was used for the printing of a newspaper, The Covington News. The property is now in the trusteeship of The Law Firm of Richard Ellenburg of Atlanta.

There is no physical barrier to prevent access to the material in question and open drums are within 15 feet of a road (Annex C - Photographs). Additionally,

overturned and leaking drums have released their contents onto the paved area where they are staged. Discharged material was observed on the soil beneath the terminus of a pipe going into the building.

Since environmental releases of suspect compounds were observed on the site, the statutory authority of the Environmental Response, Compensation and Liability Act (CERCLA) was invoked in the form of sampling and analysis of substances involved to aid in determining if an immediate response is necessary to protect the public health and welfare and the environment.

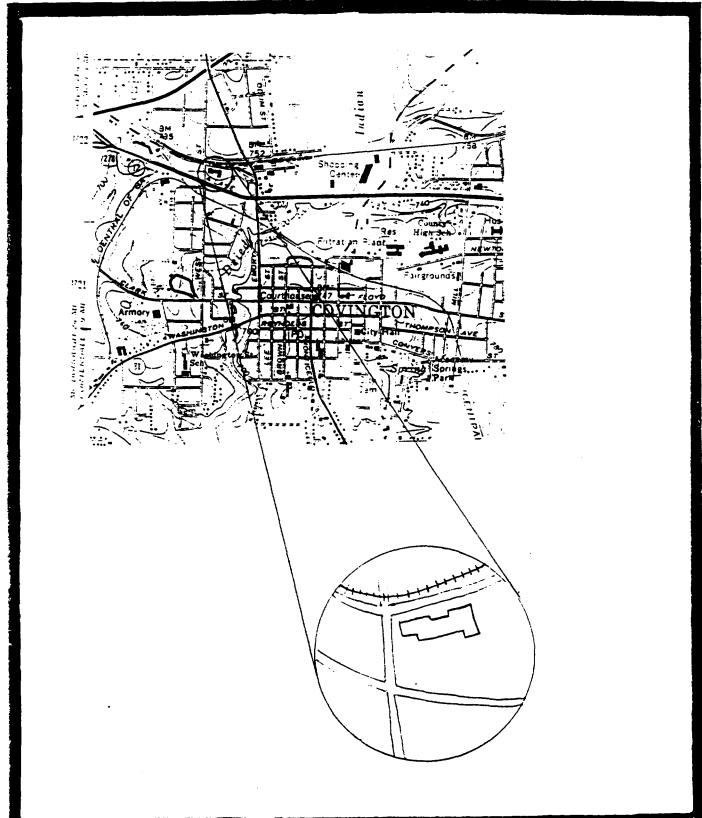
### C. Potential for Migration of Wastes Offsite

Since the wastes in question are located on a paved surface in a municipal area, migration of contaminated rain runoff from the spillage and drums will be accellerated by the relatively impervious paved surfaces it is traveling on until it reaches a receiving stream. In this case the receiving stream would be dried Indian Creek which flows south.

The city of Covington's water filtration plant is located within seven tenths of a mile (0.7) east of the Spectrum Printing site. The plant has a reservoir which is recharged with water piped from the Alcovy River which is several miles north of Covington. Since the flow of the likely drainage path for the site flows south and the filtration plant receives its water from several miles north, the chance of contamination of the city's water supply from the Spectrum Printing site is minimal.

### III. <u>DISCUSSION OF SAMPLING ACTIVITIES</u>

During the conduct of this investigation five composite samples of drummed and spilled material from the Spectrum Printing site were obtained and analyzed. The five composite samples were obtained as follows: two were from open drums containing black tarry material, one was composited from drums containing relatively pure red ink, one was composited from material spilled on the paved drum staging area and one was a composite of contaminated soil from an area around the terminus of a pipe going into the building (Figure 2 - Sampling Locations). Table I presents the sample codes, description of sample types, composite aliquots and analytical parameters. Laboratory analysis results are presented in Annex A and Quality Assurance/Quality Control Data for the laboratory analysis is presented in Annex B.



TITLE: FIGURE 1 SITE LOCATION MAP	MAP:
	SCALE:NONE
LOCATION: SPECTRUM PRINTING SITE.	ORIGINATOR:
COVINGTON, GEORGIA	DATE:TOD:

WEJTON-JUEL

•			
A	##		GEORGIA RAILROAD
		·	OLD ATLANTA ROAD
	•	T STREET	COMPOSITE SOIL SAMPLES SPCS-OI TAKEN HERE  SOCIO DO COMPOSITE SOIL SAMPLE  SPCS-OI TAKEN HERE
		WEST	SP-10-01, AND SP-SA-01 TAKEN FROM DRUMS IN THIS AREA
		>	
			278 N

TITLE:	FIGURE 2	SITE	MAP S	HOWING	
SAMPLE	LOCATIONS	: <del></del>			
LOCATIO	N: SPECT	RUM PR	INTINO	S SITE,	<del></del>
COVING	TON, GEOR	GIA			

MAP:			
SCALE:	NONE		·.
ORIGINAT	OR:		<del></del>
DATE:		TDD:	(4)

### IV. METHODOLOGY AND QUALITY CONTROL

### A. <u>Methodology</u>

All sample collections, sample preservation and chain of custody procedures used during this investigation were in accordance with the Environmental Services Division (ESD) procedures for field sampling and the sampling plan prepared under TDD #04-8708-03-1225.

Volatile organic analysis of the samples was performed by Southeast Laboratories in Atlanta using EPA methods 8010 and 8020 as set forth in EPA test methods for Evaluating Soild Wastes SW 846, 2nd edition revised 1985.

Analysis for priority pollutant metals was performed by Southeast Laboratories of Atlanta using the applicable methods set forth in EPA Methods for Evaluating Solid Waste; SW 846, 3rd edition November 1986.

### B. Quality Control

Quality Control of the lab data presented in this report was performed by Southeast Laboratories and was in accordance with the Quality Control procedures specified in the EPA methods used.

Recovery rates for spikes were within the ranges specified in the EPA methods used. Contamination levels revealed by blanks were shown to be insignificant.

### V. <u>DISCUSSION OF ANALYTICAL RESULTS</u>

Analysis for metals showed that sample SP-SC-01 had 14.8 ppm chromium and 8.3 ppm lead; sample SP-SC-02 had 9.1 ppm chromium and 12.7 ppm lead.

Volatile organic analysis of samples revealed the following levels of xylenes: SP-SC-01 26.1 ppm, SP-SC-02 88.3ppm, SP-IC-01 14.6 ppm, SP-SA-01 1.36 ppm, SP-CS-01 <50 ppb.

TABLE I
SAMPLE DESCRIPTIONS

Sample Code	Description	Composite Aliquots *	Analytical Parameter
SP-SC-01	Composite of sludgy materials from several drums	01, 02, 03, 04, 05	Metals VOA
SP-SC-02	Composite of sludgy materials from several drums	01, 02, 03, 04, 05	Metals VOA
SP-IC-01	Composite of red inks from several drums	01, 02, 03 04	VOA
SP-SA-01	Composite of material spilled on paved area	several locations on paved area	VOA
SP-CS-01	Composite of soil sample from area around the terminus of a pipe going into the building	Composite soil	VOA

<sup>\*</sup> Where aliquots are designated by numbers these numbers represent individual drums from which the samples were taken.

### ANNEX A Results of Labortory Analysis



SEPTEMBER-\_10, 1987

### LABORATORY REPORT

WESTON SPER 100 ATLANTA TECHNOLOGY CENTER SUITE 120, BLDG. 100 1575 NORTHSIDE DRIVE, N. W. ATLANTA, GEORGIA 30318

REPORT No. 25083

ATTN: MR. HARRY M. JONES/ASHLEY BROWN

SAMPLE MARKING: SPSC01 8-24-87, 0950.

TEST PROCEDURE: EPA TEST METHODS FOR EVALUATING SOLID WASTE,

NOVEMBER 1986, SW-846, 3RD ED., TESTED ON PERKIN-ELMER 460 AND 1100 ATOMIC ABSORPTION

SPECTROPHOTOMETER.

### RESULTS

والمستعدد والمستعد والمستعدد والمستع	MG/KG
ARSENIC	<0.50
BERYLLIUM	<3
CADMIUM	<3
CHROMIUM	14.8
COPPER	270
LEAD	8.3
MERCURY	<0.05
NICKEL	<5
SELENIUM	<0.50
SILVER	<10
THALLIUM	<25
ZINC	7.3
CYANIDE	2.5

NOTE: TEST PROCEDURES ENCLOSED.

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.

RANDY BROWN

RB:MS



SEPTEMBER 10, 1987

### LABORATORY REPORT

WESTON SPER 100 ATLANTA TECHNOLOGY CENTER SUITE 120, BLDG. 100 1575 NORTHSIDE DRIVE, N. W. ATLANTA, GEORGIA 30318 ATTN: MR. ASHLEY BROWN

REPORT No. 25083-1

SAMPLE MARKING: SPSC 01-02,03,04,05, 8-24-87 0950.

TEST PROCEDURE: HALOGENATED AND AROMATIC VOLATILE ORGANICS BY EPA METHODS 8010 AND 8020 AS SET FORTH IN TEST METHODS FOR EVALUATING SOLID WASTE SW-846, 2ND EDITION REVISED 1985.

### RESULTS

		والمعال	
MICROGRA	M/K ILOGRAM		MICROGRAM/KILOGRAM
<del></del>	(PPB)		(PPS)
BROMODICHLOROMETHANE BROMOFORM	<5 <5	METHYLENE CHLORIDE Tetrachloroethene	13 <5
BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHANE 2-CHLOROETHYLVINYL ETHER	<5 <5 <5 <5 <5	1,1,1 TRICHLORGETHANE 1,1,2 TRICHLORGETHANE TRICHLORGETHENE TRICHLOROFLUGROMETHAN VINYL CHLORIDE	<5 <5 <5
CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE 1,2 DICHLOROBENZENE 1,3 DICHLOROBENZENE 1,4 DICHLOROBENZENE DICHLORODIFLUOROMETHANE 1,1 DICHLOROETHANE 1,2 DICHLOROETHANE 1,2 DICHLOROETHENE T-1,2 DICHLOROETHENE 1,2 DICHLOROPROPANE C-1,3 DICHLOROPROPENE	<pre>&lt;5 &lt;5 &lt;</pre>	BENZENE TOLUENE ETHYLBENZENE XYLENES	179 241 <50 26,100
T-1,3 DICHLOROPROPENE 1,1,2,2 TETRACHLOROETHANE	<5 <5	· · · · · · · · · · · · · · · · · · ·	

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.



SEPTEMBER 10, 1987

### LABORATORY REPORT

WESTON SPER 100 ATLANTA TECHNOLOGY CENTER SUITE 120, BLDG. 100 1575 NORTHSIDE DRIVE, N.W. ATLANTA, GEORGIA 30318 REPORT No. 25083

ATTN: MR. HARRY M. JONES/ASHLEY BROWN

SAMPLE MARKING: SPSC02 8-24-87 1000, SPSC-02-01,02,03,

04,05.

TEST PROCEDURE: EPA TEST METHODS FOR EVALUATING SOLID WASTE,

NOVEMBER 1986, SW-846, 3RD ED., TESTED ON PERKIN-ELMER 460 AND 1100 ATOMIC ABSORPTION

SPECTROPHOTOMETER.

### RESULTS

	MG/KG
ARSENIC	<0.50
BERYLLIUM	<3
CADMIUM	<3
CHROMIUM	9.1 ·
COPPER	80.8
LEAD	12.7
MERCURY	<0.05
NICKEL	<5
SELENIUM	<0.50
SILVER	<10
THALL IUM	<25
ZINC	20.7
CYANIDE	14

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES. INC.



SEPTEMBER 10, 1987

LABORATORY REPORT WESTON SPER 100 ATLANTA TECHNOLOGY CENTER SUITE 120, BLDG. 100 1575 NORTHSIDE DRIVE, N. W. ATLANTA, GEORGIA 30318

REPORT No. 25083-2

ATTN: MR. ASHLEY BROWN

SAMPLE MARKING: SPSC 02-01,02,03,04,05, 8-24-87 1000.

TEST PROCEDURE: EPA METHOD 601 AND 602 AS SET FORTH IN TEST METHODS FOR ORGANIC CHEMICAL ANALYSIS OF MUNICIPAL AND INDUSTRIAL WASTE EPA 600/4-82-027 JULY 1982.

### RESULTS

	MICROGRAM/LITER (PPB)	:	MICROGRAM/LITER (PPB)
BROMODICHLOROMETHANE	<5	METHYLENE CHLORIDE	9
BROMOFORM	<5	TETRACHLORGETHENE	<5
BROMOMETHANE	<b>&lt;</b> 5	1,1,1-TRICHLOROETHANE	
CARBON TETRACHLORIDE	<5	1,1,2-TRICHLORGETHANE	
CHLOROBENZENE	<5	TRICHLORGETHENE	<5
CHLORGETHANE	<5	TRICHLOROFLUOROMETHAN	E <5
2-CHLORGETHYLVINYL ETH	ER <5	VINYL CHLORIDE	<5
CHLOROFORM	<5		
CHLOROMETHANE	<5	BENZENE	<50
DIBROMOCHLOROMETHANE	<5	TOLUENE	4,690
1,2-Dichlorobenzene	<5	ETHYLBENZENE	<50
1,3-DICHLOROBENZENE	<5	XYLENES	38,300
1,4-DICHLOROBENZENE	<5		
DICHLORODIFLUOROMETHAN	<b>IE</b> <5		
1,1-DICHLOROETHANE	<5		
1,2-DICHLOROETHANE	<5		
1,1-DICHLOROETHENE	<5		
T-1,2-DICHLORGETHENE	<5		
1,2-DICHLOROPROPANE	<5		
C-1,3-DICHLOROPROPENE	<5		
T-1,3-DICHLOROPROPENE	<5		
1,1,2,2-TETRACHLORDETH			

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.

RB: D8



SEPTEMBER 10, 1987

### LABORATORY REPORT.

WESTON SPER 100 ATLANTA TECHNOLOGY CENTER SUITE 120, BLDG. 100 1575 NORTHSIDE DRIVE, N. W. ATLANTA, GEORGIA 30318

REPORT NO. 25083-3

ATTN: MR. ASHLEY BROWN

SAMPLE MARKING: SPIC 01-01,02,03,04, 8-24-87 1005.

TEST PROCEDURE: EPA METHOD 601 AND 602 AS SET FORTH IN TEST METHODS FOR ORGANIC CHEMICAL ANALYSIS OF MUNICIPAL AND INDUSTRIAL WASTE EPA 600/4-82-027 JULY 1982.

### RESULTS

<u>M</u>	(PPB).	<u>M</u>	ICROGRAM/LITEP (PPB)
BROMODICHLOROMETHANE	. <5	METHYLENE CHLORIDE	<5
BROMOFORM	<5	TETRACHLOROETHENE	<5
BROMOMETHANE	<5	1,1,1-TRICHLOROETHANE	8,000
CARBON TETRACHLORIDE	<5	1,1,2-TRICHLORDETHANE	<5
CHLOROBENZENE	<5	TRICHLOROETHENE	<5
CHLORGETHANE	<5	TRICHLOROFLUOROMETHANE	<5
2-CHLOROETHYLVINYL ETHE	<sup>:R</sup> <5	VINYL CHLORIDE	<5
CHLOROFORM	<5	_	
CHLOROMETHANE	<5	BENZENE	<50
DIBROMOCHLOROMETHANE	<5	TOLUENE	2,520
1,2-0ICHLOROBENZENE	<5	ETHYLBENZENE	460
1,3-DICHLOROBENZENE	<5	XYLENES	14,600
1,4-DICHLOROBENZENE	<5		
DICHLORODIFLUOROMETHANE	<5		
1,1-DICHLOROETHANE	<5		
1,2-DICHLOROETHANE	<5		
1.1-DICHLOROETHENE	17		
T-1,2-DICHLORGETHENE	<5		
1,2-DICHLOROPROPANE	<5		
C-1,3-DICHLOROPROPENE	<5		
T-1,3-DICHLOROPROPENE	<5		
1,1,2,2-TETRACHLORGETHA	NE <5		

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES. INC.

RB:DB



SEPTEMBER 10, 1987

### LABORATORY REPORT

WESTON SPER 100 ATLANTA TECHNOLOGY CENTER SUITE 120, BLDG. 100 1575 NORTHSIDE DRIVE, N. W. ATLANTA, GEORGIA 30318

REPORT No. 25083-4

ATTN: MR. ASHLEY BROWN

SAMPLE MARKING: SPSA 01-GROUND, 8-24-87 1010.

TEST PROCEDURE: EPA METHOD 601 AND 602 AS SET FORTH IN TEST METHODS FOR ORGANIC CHEMICAL ANALYSIS OF MUNICIPAL AND INDUSTRIAL WASTE EPA 600/4-82-027 JULY 1982.

### **RESULTS**

	MICROGRAM/LITER (PPB)	Į	MICROGRAM/LITEP (PPB)
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE	<5 <5 <5 <5 <5	METHYLENE CHLORIDE TETRACHLOROETHENE 1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLOROETHENE	<5 <5
CHLORGETHANE 2-CHLORGETHYLVINYL ETH CHLORGFORM CHLORGMETHANE	<5 ER <5 <5 <5	TRICHLOROFLUOROMETHAN VINYL CHLORIDE BENZENE	E <5 <5 <50
DIBROMOCHLOROMETHANE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE	<5 <5 <5 <5	TOLUENE ETHYLBENZENE XYLENES	610 <50 1,360
1,4-01CHLOROBENZENE DICHLORODIFLUOROMETHAN 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE	<5 E <5 <5 <5		
1.1-DICHLOROETHENE T-1.2-DICHLOROETHENE I.2-DICHLOROPROPANE	<5 <5 <5		
C-1,3-DICHLOROPROPENE T-1,3-DICHLOROPROPENE 1,1,2,2-TETRACHLOROETH	<5 <5 Ane <5		

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.

RB:08



SEPTEMBER 10, 1987

### LABORATORY REPORT

WESTON SPER 100 ATLANTA TECHNOLOGY CENTER SUITE 120, BLDG. 100 1575 NORTHSIDE DRIVE, N. W. ATLANTA, GEORGIA 30318

REPORT No. 25083-5

ATTN: MR. ASHLEY BROWN

SAMPLE MARKING: SPCS 01-GROUND, 8-24-87 1015.

TEST PROCEDURE: EPA METHOD 601 AND 602 AS SET FORTH IN TEST METHODS FOR ORGANIC CHEMICAL ANALYSIS OF MUNICIPAL AND INDUSTRIAL WASTE EPA 600/4-82-027 JULY 1982.

### RESULTS

	MICROGRAM/LITER		MICROGRAM/LITER
	(PPB)		(899)
BROMODICHLOROMETHANE	<5	METHYLENE CHLORIDE	<5
Bromoform	<5	TETRACHLORGETHENE	<5
BROMOMETHANE	<5	1,1,1-TRICHLORGETHANE	<5
CARBON TETRACHLORIDE	<5	1,1,2-TRICHLORGETHANE	<5
CHLOROBENZENE	<5	TRICHLORGETHENE	<5
CHLOROETHANE	<5	TRICHLOROFLUOROMETHAN	E <5
2-CHLORGETHYLVINYL ETH	ER <5	VINYL CHLORIDE	<5
CHLOROFORM	<5		
CHLOROMETHANE	<5	BENZENE	<50
DIBROMOCHLOROMETHANE	<5	TOLUENE	<50
1,2-DICHLOROBENZENE	<5	ETHYLBENZENE	<50
1,3-DICHLOROBENZENE	<5	XYLENES	<50
1,4-01chlorobenzene	<5		
DICHLORODIFLUOROMETHAN	E <5		
1,1-DICHLOROETHANE	<5		
1,2-DICHLOROETHANE	<5		
1,1-DICHLORGETHENE	<b>&lt;5</b> ·		
T-1,2-DICHLORGETHENE	<5		
1,2-DICHLOROPROPANE	<5		
C-1,3-DICHLOROPROPENE	<5		
T-1,3-DICHLOROPROPENE	<5		
1,1,2,2-TETRACHLORGETH	ANE <5		

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.

R8:08

### ANNEX B

Quality Assurance/
Quality Control Data



SEPTEMBER 10, 1987

MR. ASHLEY BROWN WESTON SPER 100 ATLANTA TECHNOLOGY CENTER SUITE 120, BLDG. 100 1575 NORTHSIDE DRIVE, N. W. ATLANTA, GEORGIA 30318

RE: QUALITY CONTROL - VOLATILE ORGANICS, OUR REPORT No. 25083.

DEAR MR. BROWN:

BLANK WAS CARRIED THROUGH THE EXACT PROCEDURES AS WERE THE SAMPLES. THE FOLLOWING CONTAMINANTS WERE FOUND:

BROMODICHLOROMETHANE-----1.8 PPB METHYLENE CHLORIDE-----1.4 PPB TETRACHLOROETHENE-----0.4 PPB

### SPIKE SAMPLE:

THE SPIKE SAMPLE WAS TREATED EXACTLY AS THE SAMPLES WERE TREATED. SAMPLE 25083-2 WAS SPIKED WITH THE FOLLOWING VOLATILE ORGANICS:

1,1-DICHLOROETHENE	97% RECOVERY
TETRACHLOROETHENE	64% RECOVERY
ETHYL BENZENE	48% RECOVERY

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.

RB:MS



SEPTEMBER 10, 1987

MR. ASHLEY BROWN WESTON SPER 100 ATLANTA TECHNOLOGY CENTER SUITE 120, BLDG. 100 1575 NORTHSIDE DRIVE, N. W. ATLANTA, GEORGIA 30318

RE: QUALITY CONTROL - METALS.

DEAR MR. BROWN:

SAMPLE 25083-1 WAS SPIKED WITH THE FOLLOWING METALS HAVING THE RESPECTIVE RECOVERY:

METAL	PERCENT
ARSENIC	43
BERYLLIUM	87
CADMIUM	94
CHROMIUM	99
COPPER	96
LEAD	93
MERCURY	42
NICKEL	92
SELENIUM	76
THALLIUM	90
ZINC	101

RESPECTFULLY SUBMITTED,

SOUTHEAST LABORATORIES, INC.

RB & MS



# PHOTO# 6 OFFICIAL PHOTOGRAPH ENVIRONMENTAL PROTECTION AGENCY

Subject: SAMPLES COLLECTED, SPECTRUM PRINTING SITE

Location: 4132 US HWY 278 COVINGTON GEORGIA

**Date:** AUGUST 24, 1987

Time: 10:20 AM

Photographer: J. LATHRAM

Witness: J.A. BROWN

Film: WOLF ASA: 100

Location of Negative: TAT OFFICE

**TDD#:** 04-8708-03



# PHOTO# 5 OFFICIAL PHOTOGRAPH ENVIRONMENTAL PROTECTION AGENCY

Subject: SPILLED MATERIAL, SPECTRUM PRINTING SITE

Location: 4132 US HWY 278 COVINGTON GEORGIA

Date: AUGUST 24, 1987

**Time:** 09:35 AM

Photographer: J.A. BROWN

Witness: J.C. LAN

Film: WOLF ASA: 100

Location of Negative: TAT OFFICE

**TDD#:** 04-8708-03



## PHOTO# 4 OFFICIAL PHOTOGRAPH ENVIRONMENTAL PROTECTION AGENCY

Subject: SPILLED MATERIAL, SPECTRUM PRINTING SITE

Location: 4132 US HWY 278 COVINGTON GEORGIA

Date: AUGUST 24, 1987 Time: 10:20 AM

Photographer: J.A. BROWN Witness: J.C. LAN

Film: WOLF ASA: 100 Location of Negative: TAT OFFICE

TDD#:04-8708-03



## PHOTO# 3 OFFICIAL PHOTOGRAPH ENVIRONMENTAL PROTECTION AGENCY

Subject: SPILLED MATERIAL, SPECTRUM PRINTING SITE

Location: 4132 US HWY 278 COVINGTON GEORGIA

**Date:** AUGUST 24, 1987 **Time:** 10:20 AM

Photographer: J.A. BROWN Witness: J.C. LAN

Film: WOLF ASA: 100 Location of Negative: TAT OFFICE

**TDD#:**04-8708-03



### PHOTO# 2 OFFICIAL PHOTOGRAPH **ENVIRONMENTAL PROTECTION AGENCY**

Subject: SAMPLING OPERATIONS, SPECTRUM PRINTING SITE

Location: 4132 US HWY 278 COVINGTON GEORGIA

**Date:** AUGUST 24, 1987

Time: 09:40 AM

Photographer: J. LATHRAM

Witness: KLUTZ

FilmWOLF ASA: 100

Location of Negative: TAT OFFICE

**TDD#:** 04-8708-03



## PHOTO# 1 OFFICIAL PHOTOGRAPH ENVIRONMENTAL PROTECTION AGENCY

Subject: DRUM STAGING AREA, SPECTRUM PRINTING SITE 4132 US HWY 278

Location: LOOKING SOUTHWEST ACROSS OLD ATLANTA RD., COVINGTON GEORGIA

Date: AUGUST 24, 1987

Time: 09:30 AM

Photographer: J.A. BROWN

Witness: J.C. LAN

Film: WOLF ASA: 100

Location of Negative: TAT OFFICE

**TDD#:** 04-8708-03

#### SPECTRUM PRINTING

### REMOVAL ACTIONS

COVINGTON, NEWTON COUNTY, GEORGIA

TO:

Bill Klutz, OSC

EPA, Region IV

FROM:

Teri Wynn

TAT, Region IV

TECHNICAL DIRECTION DOCUMENT TDD #04-8810-26-2026 #04-8810-26a-2213 TAT #04-F-03026

DATE:

05 May 1989

News Articles

YDDENDIX D MAST SONGRESSA LASINHOST

Roy F. Weston, Inc./Major Programs Division 100 Atlanta Technology Center, Suite 120 1575 Northside Drive Atlanta, Georgia 30318

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- I. INTRODUCTION
- II. SITUATION
- III. SUMMARY
  - IV. REMOVAL ACTIONS
    - V. ROSTER OF AGENCIES, ORGANIZATIONS & INDIVIDUALS
  - VI. LIST OF FIGURES AND APPENDICES

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Figure 2 - Area Site Location Map

Figure 3 - Site Diagram

Appendix A - Photographs

Appendix B - TAT Sampling Activities Report

1.) Table I - Sample Descriptions

Appendix C - TAT Sampling Plan Report

Appendix D - Compatibility Analyses Report

Appendix E - Chain-of-Custody Forms

Appendix F - Log Notes

Appendix G - Site Safety Plan

Appendix H - Drum Log

#### I. INTRODUCTION

On-scene coordinator (OSC) Bill Klutz tasked the Roy F. Weston Technical Assistance Team (TAT) under Technical Direction Document (TDD) #04-8810-26 to assist in on-scene contractor monitoring at the Spectrum Printing Site in Covington, Newton County, Georgia (Figures 1 & 2 - Site Maps).

#### II. SITUATION

The Spectrum Printing site is located in the Covington, Georgia commercial district at 4132 U.S. Highway 278. From January 1987 to May 1987 Spectrum Printing operated a printing company at this location. Spectrum Printing owner, Ralph Preddy, filed for bankruptcy in May of 1987. The property is now in the trusteeship of the Law Firm of Richard Ellenberg of Atlanta.

According to a 1987 Site Investigation Report, approximately 260 drums of waste were essentially abandoned with no plan in place for disposal. The drums were stockpiled on a paved area behind a medium sized industrial building (Figure 3 - Site Diagram). A public road is contiguous to the paved area. Open drums containing printing process and waste materials were observable sdalod and accessible from the road (Attachment A - Photographs). A XIGNEGAV

During the site investigation, five composite samples of drummed and spilled material from the site were collected and analyzed. Analyses showed low level heavy metal contamination as well as xylene, toluene, and benzene.

#### III. SUMMARY

Between the dates of 28 and 29 September 1988, Region IV TAT members Teri Wynn, Christi Ulmer, and Karen Jarrett-Gill mobilized to the facility formerly operated by Spectrum Printing Company, Inc. in Covington. The TAT members met with the trustees contractor, Haztech. Steve Holt representing Haztech was queried about the operations that were to take place on site. Mr. Holt replied that during this initial phase, the drums would be numbered and staged (Photos #3, 13, & 16 - 22). The drums would then be opened for sampling (Photos #25 - 32). Finally, the general appearance and characteristics would be noted on drum logs (Attachment F - Drum Logs). Compatibility of the waste for possible bulking would be evaluated. Mr. Holt also replied that during subsequent removal phases, the drums would be crushed and eventually dumped in a roll-off for disposal. Also, contaminated soils and residuals underneath the drums would be excavated and disposed. Haztech was unsure of actions to be taken relative to the drums stored inside of the building, but a backhoe with an articulating arm-attachment could be used to move the drums to the staging area during the actual removal process. Conductor's Wheel Report

Approximately 2 to 3 weeks afterness ampling investigation on 28 - 29 September, the sample analysis were received by Haztech and a copy of the analysis forwarded to TAT. Analyses revealed compatibility of the various waste materials (Attachment D - Compatibility Analyses Report).

On 8 November 1988, Cindy Love of Haztech contacted OSC Klutz to inform him of the initiation of actual removal actions tentatively scheduled for March 1989. Ms. Love also informed OSC Klutz that the Georgia Environmental Protection Division (EPD) had been notified of this schedule and had made plans to be onsite during the removaldem uniquency [219499]

Haztech's original plans for waste disposal was to bulk two waste streams, inorganic material and organic material. The inorganic material was to be solidified and sent to an Industrial Waste Landfill in Live Oak, Georgia. The organic material was to be incinerated. On 22 November, OSC Klutz informed TAT that a meeting to discuss disposal of the wastes at the Spectrum Printing site would be taking place at the EPA offices in Atlanta. He explained that some components of the wastes were found to be hazardous, and landfilling would not be a viable consideration. Such wastes were designated as F003-F005 RCRA wastes and were considered "land ban wastes".

Following the clarification of disposal criteria, Haztech notified the TAT office through OSC Klutz as to a revised time schedule as follows:

- On 12/22/88 the 1000 gallon above ground storage tank
   (vat) was to be pulled;
- 2) The analytical data from the sampling that took place on 28 and 29 September 1988, was invalid as hazardous categorization for landfilling was performed and this disposal option will not be utilized;

- 3) According to Cindy Love and Gary Rogers of Haztech, Haztech will be the site supervisors and will inform TAT of the definitive dates and times of removal actions;
- 4) The removal and disposal was estimated between \$12,000.00 and \$115,000.00 with Haztech possibly subcontracting incinerator services to ThermoKem;
- 5) A representative of the Georgia EPD will probably be onsite.

Doug Snyder of Westinghouse Haztech subsequently contacted TAT member Wynn as to the initiation of removal activities beginning 6 March 1989 at the Spectrum Printing site in Covington. Mr. Snyder also indicated a time frame of seven to ten days for completion of removal actions. Waste streams consisting of water, inks, isopropyl alcohol, adhesives, and contaminated dirts and sludges were to be combined in drums. He stated that the Tricel Company, a fuel blending facility located in Florida, had been contacted relative to disposal. Mr. Snyder contacted OSC Klutz for permission to begin removal actions. On 19 January 1989, approval was obtained from the OSC and the GA EPD to begin removal actions and transport wastes to Tricel in Bartow, Florida for disposal.

### IV. REMOVAL ACTIONS

On 6 March, TAT was task by OSC Klutz to perform contractor monitoring of the responsible party cleanup action at the Spectrum Printing site. Upon arrival, one security guard and five Haztech personnel including the site supervisor, Doug

Snyder, were present. Mr. Snyder told TAT that an explosimeter and an HNu would be used to monitor the staging area and the drums before any activity took place. Mr. Snyder also explained to TAT that the original site safety plan had been modified for additional actions and/or changes in the initial scope of work.

A command post area was selected inside the empty warehouse where an office for Spectrum Printing had been previously established. Materials and equipment for decon, replacement drums and overpacks were placed inside the warehouse for set-up on the following day. A fork-lift was mobilized to the site for drum handling purposes to facilitate the movement of both empty and full drums to designated areas. A backhoe with an articulating arm was also mobed to the site for handling of drums.

Following set-up of the decon area, the HNu and explosimeter were checked to ensure proper calibration. A Haztech crew dressed in "Level C" to prevent accidental spillage of wastes onto clothing and/or skin and to prevent inhalation of vapors, entered the drum staging area. All drums were opened and the head space monitored for emission of volatile organic components. A total of three drums eluded readings in excess of 100 units. These drums were subsequently labeled and segregated. No further readings above background were observed (Attachment B - TAT Sampling Activities Report).

Actions aimed at product transfer were initiated from drums which were observed to be damaged and/or rusted. Contents were removed using a diaphragm pump or physically emptied into replacement

drums. A total of two hundred and fifty two drums were emptied into replacement drums. Haztech combined wastes as much as possible; however, most of the drums were already full.

After all wastes were combined and sealed in the drums, a 1000 gallon storage tank was emptied. A 1/4 inch hose was attached to a connection on the bottom of the tank to allow the weight of the thick, dark, viscous material to force itself down through the hose into individual disposal drums.

Upon completion of drum overpacking and staging, Haztech began transporting waste materials in drums to the Tricel fuel blending facility in Bartow, Florida. All of the waste being transported were manifested in accordance with DOT specifications. truckloads of drums (a total of 191) were transported from the Spectrum Printing Site in Covington, Georgia to the Tricel facility on 27 - 28 March. Tricel accepted 70 of the drums and rejected 121 drums as they contained solid materials such as The Tricel facility was unable to process such wastes. Subsequently, all of the waste was diverted to the Rineco Facility in Benton, Arkansas on 30 March. The Rineco Facility was also a fuel blending facility which could accept both solid and liquid waste streams. Of the 121 drums going to Rineco, 96 drums were on one truckload and 25 were sent as a partial load. In addition, 73 drums were transported from Covington, Georgia directly to the Rineco Facility in Benton, Arkansas.

The 252 empty drums remaining following transfer operations were sent to MKC, a drum and solvent reclaimer. Twenty-three drums

containing tyvek and visqueen used in the removal process were forwarded to the BFI landfill for subsequent disposal. Ten empty drums used for deconning purposes were sent to McConnel Company, also a drum reclaimer. All site activities were completed by mid-April; however, during a follow-up inspection by Haztech, five additional drums were found containing waste materials. Haztech subsequently sent a partial load of five drums to the Rineco Facility.

### V. ROSTER OF AGENCIES, ORGANIZATION, AND INDIVIDUALS

Bill Klutz, OSC
U. S. Environmental Protection Agency
345 Courtland Street
Atlanta, Georgia 30365
404/347-3931

Teri Wynn, TAT
Christi Ulmer, TAT
Karen Jarrett-Gill, TAT
Roy F. Weston, Inc./Major Program Division
100 Atlanta Technology Center, Suite 120
1575 Northside Drive
Atlanta, Georgia 30318
404/352-4147

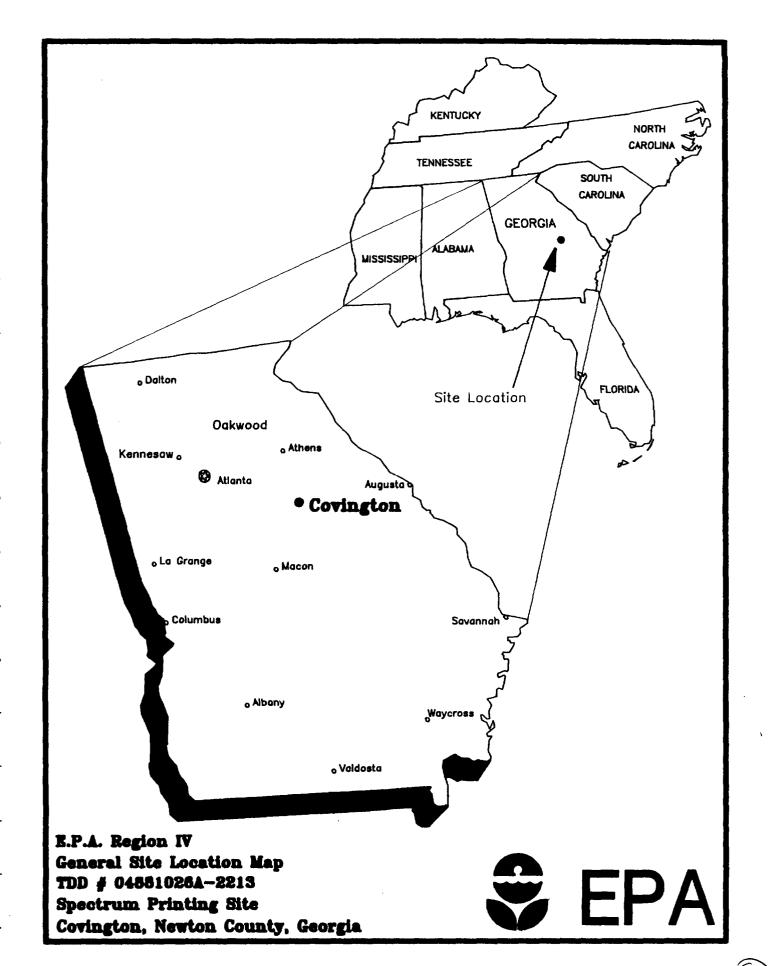
### Sampling

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404/981-9332

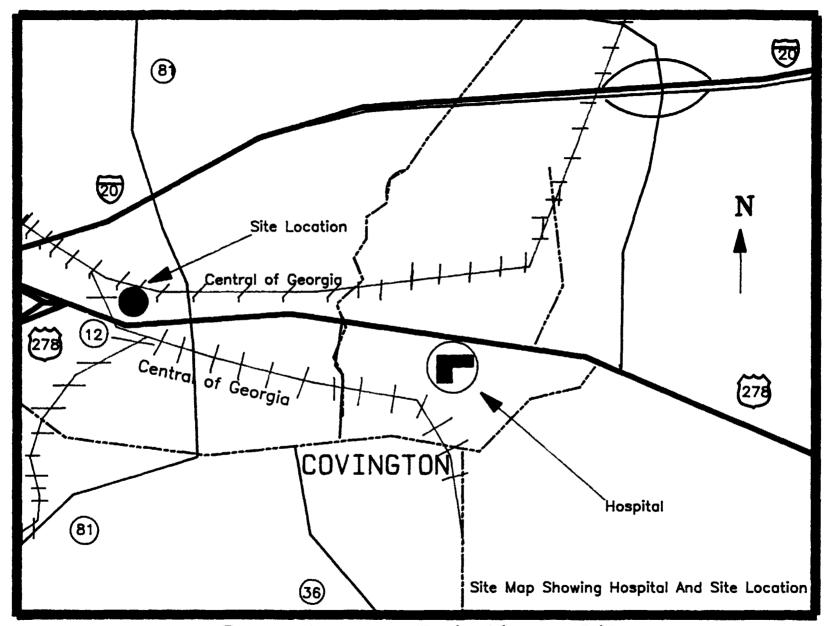
VI. LIST OF FIGURES AND APPENDICES

# FIGURE 1 General Site Location Map



71

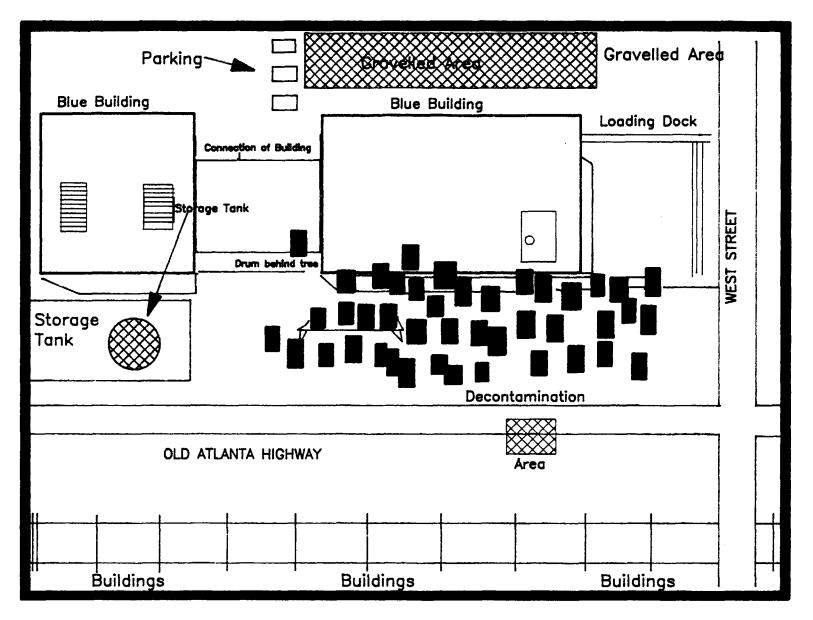
FIGURE 2 STEE LOCATION Map



Spectrum Printing Site Covington, Newton County, Georgia

FIGURE 3
Site Diagram





TITLE: Spectrum Printing Site

LOCATION: Covington, Newton County, Georgia

DATE: September 28 and 29, 1988

TDD: #04881026A-2213



### REFERENCE NO. 4

POTENTIAL HAZARDOUS WASTE SITE					I. IDENTIFICATION		
<b>≎</b> EPA	PRELIMINARY	ASSES	SMENT		OLSTATE OF	SITE NUMBER	
Ρ/	art 1 - site informa	TION AN	ID ASSESSME	NT	WALL.	NO LII	
II. SITE NAME AND LOCATION			·	<del></del>			
01 SITE NAME (Legal, common, or descriptive name of alle)		02 STREE	T, ROUTE NO., OR	SPECIFIC LOCATION	DENTIFIER		
SPECTRUM PRINTIN	li,	41	32 U.	S. HI	GHWA-	1 278	
I O3 CITY			05 ZIP CODE _ 0	6 COUNTY		OFCOUNTY OF CONG	
COVINGTON		GA	30209	NEWTON	<u> </u>		
	LONGITUDE 5203.						
10 DIRECTIONS TO SITE ISLATING ITEM RESPONSE HEADS FROM ATMINITY TAKE INTER	CATEON FAST	· ADI	POV MAZ	1614 35	MILES	W	
THE COUNTYN U.S. 278 &	EXIT TAVE U.	5. 27	SHAST	APPROX 1	MILE	, cd.	
WEST STREET GO LE	EFT ADDREX 10	OFE	ET SIT	F IS UN =	HERIO	54 Z	
III. RESPONSIBLE PARTIES	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				772 (111	<u></u>	
01 OWNER If snown	<del> </del>	02 STREE	T (Busness, making, re	Salential)		<del></del>	
RICHARD ELLENBURG	- (TRUSTEE)	5	33 WAL	TON 57	~ N	W.	
03 CITY		04 STATE	05 ZIP CODE	06 TELEPHONE	NUMBER		
ATLANTA		GA	30318	1404 52	5 4000		
O7 OPERATOR (# anown and different from ewner)		OB STREE	T (Business, making, re.	sidential)			
09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE	NUMBER		
13 TYPE OF OWNERSHIP (Check one)			<u> </u>			l	
☐ A. PRIVATE ☐ B. FEDERAL:			_ C. STATE	DD.COUNTY	□ E. MU	NICIPAL	
F. OTHER: TRUSTEE SAIL	- RICHARD ELLENS	326	_ 🗆 G. UNKN	OWN			
14 OWNER OPERATOR NOTIFICATION ON FILE (Green of the					<del></del>		
A RCRA 3001 DATE RECEIVED:	B. UNCONTROLL	ED WAST	E SITE (CERCLA 103	e DATE RECEIVE	ED: MONTH DE	C. NONE	
IV. CHARACTERIZATION OF POTENTIAL HAZ							
01 ON SITE INSPECTION Q 24 0.7	BY (Choca of that apply)	CONTRA	стоя 💢	C. STATE	T D OTHER	CONTRACTOR	
TYES DATE 8 24 87	A. EPA B. EPA	CIAL	LF. OTHER:			<del></del>	
	CONTRACTOR NAME(S):	RUY	F. WES	7011	(Soecily)		
DZ SITE STATUS (Check one)	03 YEARS OF OPER					······································	
A. ACTIVE B. INACTIVE C. UNKNO	NWN	EGINNING Y	ENDING	YEAR	UNKNOW	<b>V</b>	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT.		_		- 04			
CHROMIUM, LEAD, XYL	ENES, ANHY	DROU	S ISOPA	ropyl Al	COHOL		
	•						
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONME							
PRINTING WASTES WERE	UBSERVED O	N	ie groun	n dun a	NTHE		
PAVED AREA WHERE DRI	ums mate som	000			•		
V. PRIORITY ASSESSMENT							
01 PRIORITY FOR INSPECTION (Check one. If high or measure is		mation and Pa		erdout Conditions and inc	rdents)		
C A HIGH (Property) (B. MEDIUM (Property)	C. LOW (Inspect on time		EJ D. NONE (Ma Auril	E her acken needad; comak	He current d'Epas	iten lom)	
VL INFORMATION AVAILABLE FROM							
01 CONTACT	02 OF (Agency/Organiz	atran)	. 1			OJ TELEPHONE NUMBER	
RAMONA U KLEIN  104 PERSON RESPONSIBLE FOR ASSESSMENT	GA DE	070	F N47UR	AL RESUVE 07 TELEPHON (FOY) 35	iEs	(404) 656 2836	
1	05 AGENCY	06 ORG	ANIZATION	07 TELEPHON	NUMBER	08 DATE 0.1	
JOHN ASHLEY BROWN	EPA-TAT	KOY	F. WESTON	y (404) 35	24147	MONIM DAY YEAR	

EPA FORM 2070-12 (7-61)





## POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

	TEICATION
CA	OZ SITE NUMBER

AL			PART 2 - WAST	E INFORMATION	V	WA WE	779
II. WASTES	TATES, QUANTITIES, A	ND CHARACTER					
	TATES (Check of that apply)	02 WASTE QUANT		03 WASTE CHARAC	TERISTICS (Checa as Inal a	no/+/	
C A. SOUD	E. SLUARY	TE E SLURRY MUST DO MOSPORGONI U B. CORROSIVE U F. II					VOLATILE
E 3. POWDE	ER. FINES DEF. LIQUID	TONS	<del></del>	G C. RADIO	ACTIVE K G. FLAM	MABLE LI K. REACT	
•		CUBIC YARDS		LI O. PERSI	STENT LI H. IGNITA	ABLE (3 L. INCOM) (3 M. NOT A	
C D. OTHER	(Seecry)	NO. OF DRUMS	MPRON 275				
III. WASTE 1	YPE						
CATEGORY	SUBSTANCE	NAME	01 GROSS AMOUNT	02 UNIT OF MEASUR			
SLU	SLUDGE		APPROX 1300	GALLONS	ASSUMING 1	0% DRUMS AR	14 52 UD6C
OLW	OILY WASTE				1		
SOL	SOLVENTS		APPROXIBOU	GALLUNS	ASSUMING/S	% DRUMS A	Rt SULUGUT
PSO	PESTICIDES						
occ	OTHER ORGANIC C	HEMICALS					
ЮС	INORGANIC CHEMIC	CALS					
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES (500)	løpendu for most frequer	nity caled CAS Numbers)				
01 CATEGORY	ATEGORY 02 SUBSTANCE NAME		03 CAS NUMBER	04 STORAGE/DI	SPOSAL METHOD	05 CONCENTRATION	OS MEASURE OF
	MYLENES		1330-20-7	DRUMS, of	en brums	88.37	PPM
	CHROMINI	1	7440-47-3	DRUMS OF	EN DRUMS	14,87	ppm
	L GAD		7439-92-1	DRUMS, OP	TN DRUMS	12.74	PPM
	1 SOPROPANOL	_	67-63-0		m5		
-							
	+ THESE	CON ENTR	+7/2145 ME	RE OBJA	INGO PRUM FROM OPER	MBORAZON DRUMS.	٤٠,
			HTIONS AR			NACTOR ST	<del>                                     </del>
	TIA NEW	WN W/W	1//0/03_75	70-413			<del> </del>
			<del></del>	<del> </del>		<del> </del>	
			<u> </u>	<u> </u>		<u> </u>	<u> </u>
	CKS 1500 Appondu for CAS Mumi		<del></del>	·			
CATEGORY	01 FEEDSTO	CK NAME	02 CAS NUMBER	CATEGORY	O1 FEEDST	OCK NAME	02 CAS NUMBER
FDS			<u> </u>	FDS			
FDS			<u> </u>	FDS			
FDS				FDS			
FDS			<u> </u>	FDS	<u> </u>		
	S OF INFORMATION ICA						
VISU.	al observati	710N, WAB	ELS ON DR	UMS, LAB	URAJURY A	NAL 1515	
	·			•			

### **SEPA**

### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION GA WOZ99

PART 3 · DESCRIPTION OF H	AZARDOUS CONDITIONS AND INCIDENTS	
IL HAZARDOUS CONDITIONS AND INCIDENTS		
01 X A. GROUNDWATER CONTAMINATION SO THE OF OS POPULATION POTENTIALLY AFFECTED: CONTAMINATION	04 NARRATIVE DESCRIPTION	E POTENTIAL SALLEGED
RAIN RUNOFF FROM OPEN ORUMS AL	10 spilled material on site	MUST LIKELY
WILL RUIV INTO PRIED INOUN (REE	c willet is a drainage path	WILLICH TRIVELS
South and Dries up during p	erious of little rain	
01 D B. SURFACE WATER CONTAMINATION SOUTH OF 03 POPULATION POTENTIALLY AFFECTED: COVING TON		C'POTENTIAL ALLEGED
RAIN RUIVOFF PROM OPEN DRUM	5 4UD SPILLED MATGRIPL ON	) SITE WILL
MOST LIKELY MAKE ITS WAY	TO DRIED INDIAN GREEK	
01 S.C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: COVING 7 214	04 NARRATIVE DESCRIPTION	POTENTIAL G ALLEGED
EURPORATION OF SULVENTS	(CAPRIERS) IN OPEN DE	?uM S
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	C) POTENTIAL C) ALLEGED
01 DEE. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 LI OBSERVED (DATE: 274-27) 04 NARRATIVE DESCRIPTION	POTENTIAL ALLEGED
MATERIAL IN OPEN DRUMS 1	EASILY ACCESSABLE	TO PUBLIC
01 % F. CONTAMINATION OF SOIL COLL COLL COLL	04 NARRATIVE DESCRIPTION	CI POTENTIAL PALLEGED
SPILL AGE IT MATERIAL ON ;	THE GRUIND WAS OBSER	uso beveath
THE TERMINUS OF A PIPE		
01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 TO OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL C ALLEGED
01 TH. WORKER EXPOSURE/INJURY	02 - OBSERVED (DATE: 8-14-17)	CONTENTAL CONTENTAL
03 WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	POTENTIAL ALLEGED
THE PALLETS DRUMS ARE S	P CARE SHOULD BE EXECUTED ON APPEAR UN	RUSED AS MANY OF
01 [] I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL C ALLEGED
<i>&gt;</i>		

O = D 4		I. IDENTIFICATION			
<b>ŞEPA</b>	PRELIMINARY ASSESSMENT	1.A W 0 2-9 9			
	PTION OF HAZARDOUS CONDITIONS AND INCIDENTS	<u> </u>	N = 1-11		
IL HAZARDOUS CONDITIONS AND INCIDENT	S (Continued)		<del></del> -		
01 © J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	□ POTENTIAL	C ALLEGED		
01 D.K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (INCARRO NAME(S) OF SOSCIAL	02 D OBSERVED (DATE:)	POTENTIAL	C ALLEGED		
01 D L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:)	D POTENTIAL	C) ALLEGED		
	00467	<del></del>			
M. UNSTABLE CONTAINMENT OF WASTES (Sode: Funds: Estanding bounds: Jeaning drums)  O3 POPULATION POTENTIALLY AFFECTED:	02 - OBSERVED (DATE: 8-24-67)	D POTENTIAL	ALLEGED		
Many Drums are chen a	ND FILLS TO THE TOP WITH RID AND LEAKING MATERIAL	AIN WATER	r, some		
04 NARRATIVE DESCRIPTION	DRAINS, WWTPs 02 C OBSERVED (DATE: 5-24-87)	C POTENTIAL	<b>∑</b> ALLEGED		
OF NARRATIVE DESCRIPTION		-	/-		
RAIN RUNUFF TRUM	A SITE WILL BE CAPRIED BY ST	urm dri	f/N 5		
01 C P. ILLEGAL'UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	POTENTIAL	C ALLEGED		
			·		
05 DESCRIPTION OF ANY OTHER KNOWN, POTE	ENTIAL, OR ALLEGED HAZARDS				
	' ~'	•			
IL TOTAL POPULATION POTENTIALLY AFFE	ECTED:				
IV. COMMENTS					
V. SOURCES OF INFORMATION :Cre specific release					
	VIV KESUILLES, COUINGTON NEWS - FORMER OF	WINER PRIVE	70		

PROS ALQUISITION, RANDY BROWN - SOLTHERSTERN LABS, RANDY BROWN - SOUTHERSTEN LABS,

DEMY STRIKLAND. CVTY OF CEVING/UN WATER WERKS, DON Floy 10- FIR F MARDLAGE. COUNDERN, FRANK TURNER - CONINGTON CITY INDUADER

<b>\$EPA</b>		NTIAL HAZAR SITE INSPECT LOCATION AND	TION REP	ORT	OI STAT	TIFICATION E 02 SITE NUMBER W02-99
II. SITE NAME AND LOCA		_ >				,
01 SITE NAME (Legal common, or		*	02 STREET,	ROUTE NO., OR SP	ECIFIC LOCATION IDENTIFIE	<del></del>
SPECTRI	UM PRINTING	-	413	2 0,5	HIGHWAT	278
03 CITY			O4 STATE O	5 ZIP COOE	06 COUNTY	07COUNTY 08 CONG CODE DIST
COVING		O TYPE OF OWNERSH		30209	NEWTON	
33 36 LS.	_833203	D. A. PRIVATE		E SHIP	□ C. STATE □ D. COUN □ G. UNKN	
III. INSPECTION INFORM 01 DATE OF INSPECTION		03 YEARS OF OPERAT	DON			
8 24, 87 MONTH DAY YEAR	O2 SITE STATUS  ACTIVE  MINACTIVE		NINING YEAR	ENDING YEAR	Xunknov	N
04 AGENCY PERFORMING INSP	7	NESTON	<b>5.0</b>			
☐ A. EPA ◯ B. EPA CO	CONTRACTOR	ne of firm)	G. OTHE		UNICIPAL CONTRACTOR	(Name of Emp
05 CHIEF INSPECTOR	(Nar	ne of firm) OB TITLE			(Sectivi) 07 ORGANIZATION	OS TELEPHONE NO.
JOHN ASHLE	BROWN	CIVIL E	IN GIN	IEER	ROYF. WESTU	14 140\$3 352 4147
OF OTHER INSPECTORS		EPA	G5 (		EPA	12 TELEPHONE NO.
						( )
						( )
						( )
						. ( )
13 SITE REPRESENTATIVES INT	ERVEWED	14 TITLE	154	DORESS		16 TELEPHONE NO
						( )
						( )
						( )
	· .					( )
					_	( )
17 ACCESS GAINED BY	18 TIME OF INSPECTION	19 WEATHER COND		<del></del>		
PERMISSION  WARRANT	0900	CLEA	e,w.	4814		
IV. INFORMATION AVAIL	ABLE FROM					Lag TRI PROGRESS
RAMONA J.	KLEIN	GEORG 1/2		OF IVAT	uralles.	03 TELEPHONE NO. (#4) 656-2836
04 PERSON RESPONSIBLE FO	R SITE INSPECTION FORM	05 AGENCY	06 ORGAN	IZATION	07 TELEPHONE NO.	OS DATE
JOHN ASHLET	BROWN	EPA-TAT	Roy	F. WESTUN	(404) 3524147	MONTH DAY YEAR
EPA FORM 2070-13 (7-81)					- :	

L IDENTIFICATION	۰
O1 STATE O2 SITE NUMBER	
(iA WU 190	

SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS					01 STATE 02 SITE NUMBER		
L HAZARDOUS CONDITIONS AND IN	ICIDENTS (Commune)						
01 II J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION		02 - OBSERVED (DATE:	)	O POTENTIAL	C ALLEGED		
01   K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name)	zi oł znecieżi	02 - OBSERVED (DATE:	1	□ POTENTIAL	C ALLEGED		
01 ☐ L. CONTAMINATION OF FOOD CHA 04 NARRATIVE DESCRIPTION	NIN .	02 C OBSERVED (DATE:	)	C POTENTIAL	☐ ALLEGED		
01 O M. UNSTABLE CONTAINMENT OF V (SOUS AUTON STENDING SOURCE LOSING OUT 03 POPULATION POTENTIALLY AFFECTE MANY DRUMS ARE	D. COUNTEZUIN	02 G OBSERVED (DATE: 8-24 04 NARRATIVE DESCRIPTION FILLO TO THE TOP		G POTENTIAL	SALLEGED		
DRUMS ALC OUGITU	T CIMP COM	CAKING MATERIAL  02 - OBSERVED (DATE:		C POTENTIAL	ALLEGED		
04 NARRATIVE DESCRIPTION							
DI XO. CONTAMINATION OF SEWERS. DI NARRATIVE DESCRIPTION RAIN STURM DRAIN S	STORM ORAINS, WWY	173 02 0 OBSERVED (DATE: <u>3-25</u> 59 04 S 17F WILL B	(-87) E CARR	DED BY	ALLEGED		
01 () P. ILLEGAL/UNAUTHORIZED DUMI 04 NARRATIVE DESCRIPTION	PING .	02 C OBSERVED (DATE:	)	□ POTENTIAL	C ALLEGED		
05 DESCRIPTION OF ANY OTHER KNOW	IN, POTENTIAL, OR AL	LEGED HAZAROS					
H TOTAL BORN ATION SOFTIES	IV AFFENTEN.						
II. TOTAL POPULATION POTENTIAL V. COMMENTS	LT APPECIEU:						
V. SOURCES OF INFORMATION (CHE	socific references, e.g., state :	ires, samole analysis, redortsi					
RYMON J KLEN- STATE TO PRP'S ACQUISITION) DEWY STRIKKAND-CITTO	F DEPT OF NA RAMON BROWN, - F CHINGTON WA	TRESOURCES, COVINGTON- BOUTHERSTERM LABS (PER TER WORKS, DON FleyD-E	NEWS CI FORMED AN IN CHEF F	form ga ow UALTSIS OF URC MARSHA	NER, PRICA SAMPLES)		



\$	EF	A
----	----	---

I. IDENT	IFICATION
OLSTATE	02 SITE NUMBER WO299

SITE INSPECTION PART 4 - PERMIT AND DESCRIPTIVE INFORMATION					19.A WOZ99		
II. PERMIT INFORMATION	<del></del>						
01 TYPE OF PERMIT ISSUED Check of that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS			
			1		,		
C A. NPDES					<del> </del>		
38. UIC			+		· · · · · · · · · · · · · · · · · · ·		
C. AIR							
D. RCRA			<del></del>	<u> </u>	<del></del>		
SE. ACRA INTERIM STATUS				<del> </del>			
C F. SPCC PLAN			<del></del>	<del> </del>			
I.G. STATE Specifies				<u> </u>			
TH. LOCAL Specific			<del></del>	ļ			
CI. OTHER (Specify)				ļ			
J. NONE				<u> </u>			
III. SITE DESCRIPTION	*	*	<u> </u>				
01 STORAGE DISPOSAL (Check all that apply)	OS AMOUNT A OS UN	IT OF MEASURE 04	TREATMENT Chocs of the	10071	05 OTHER		
A. SURFACE IMPOUNDMENT		0,	L INCENERATION				
C 8. PILES	1.44	ا ا	3. UNDERGROUND INJ	ECTION	A. BUILDINGS ON SITE		
C. DRUMS, ABOVE GROUND	APPRIX 275 5	5 64L   0	C. CHEMICAL/PHYSIC	AL			
C D. TANK, ABOVE GROUND			D. BIOLOGICAL				
☐ E. TANK, BELOW GROUND		🗆	E. WASTE OIL PROCES	SING	06 AREA OF SITE		
C F. LANDFILL	<del></del>	C	SOLVENT RECOVER	Υ	A000-Y 1 5		
☐ G. LANDFARM			3. OTHER RECYCLING	RECOVERY	APPROX 1. 5 More		
C H. OPEN DUMP		C i	1. OTHER				
(Soecdy)	<del></del>	Ţ	(50	ocaly)			
			·		•		
IV. CONTAINMENT			······································				
O1 CONTAINMENT OF WASTES (Creek and)							
A. ADEQUATE, SECURE	C B. MODERATE	C. INADE	QUATE, POOR	O. INSEC	CURE, UNSOUND, DANGEROUS		
02 DESCRIPTION OF DRUMS, DIKING. LINERS	, BARRIERS, ETC.						
V. ACCESSIBILITY	<del> </del>						
	ES T NO						
01 WASTE EASILY ACCESSIBLE: XY 02 COMMENTS	ES 3 NO	,					
VI. SOURCES OF INFORMATION ICA	specific references, e.g. state lifes	. samole analysis, reports)					
					•		



L IDENTIFICATION

SEPA	PART 5 - WATER	••••	PECTION REPORT  APHIC, AND ENVIRONMENTAL DATA  OLIVINO 299				
II. DRINKING WATER SUPPLY							
01 TYPE OF DRINKING SUPPLY (Check as approach)		02 STATUS				03	B DISTANCETO SITE
SURFACE	WELL	ENDANGERE	D AFFEC	TED A	AONITORED		<b>△</b> '7
COMMUNITY A, 2	8. 🗆	A. 🗆	<b>B</b> . 0	_	<b>C</b> . 🗆	A	
NON-COMMUNITY C.	0. 🗆	0. 🗆	E. (	J	F. 🗆	8	(mi)
III. GROUNDWATER					·		
01 GROUNDWATER USE IN VICINITY (Chieda)	one)						
C A. ONLY SOURCE FOR DRINKING	S. DRINKING (Other sources evalua COMMERCIAL, IN (Ne other water source	IOUSTRIAL, IRRIGATIO	(Lim	MMERCIAL,	INDUSTRIAL, IRRIGAT	TON	O. NOTUSED, UNUSEABLE
02 POPULATION SERVED BY GROUND WAT	'ER	-	03 DISTANCE	TO NEARES	T DRINKING WATER V	WELL	(mi)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	WOJF RETAWDRUD	OS DEPTH TO		07 POTENTIAL YIEL	٥	08 SOLE SOURCE AQUIFER
APPROX 40-60 (m)	GENERALTRE	ID S.E.	OF CONCE	(ft)	OF AQUIFER	land	TYES DINO
09 DESCRIPTION OF WELLS (Including usesge,					L	_ (gpd)	<u> </u>
MOST REODLE USE MUNICIPAL WATER FROM GUINGTON, THERERE SIME WELLS IN THE VICINITY BUT PER THE CITY MANAGER, FRANK TURNER, THEY ARE NOT USED							
10 RECHARGE AREA			11 DISCHARG				
YES COMMENTS				COMMENT	<b>'S</b>		
□ NO			□ NO				<b>\$.</b> ↔
IV. SURFACE WATER							
01 SURFACE WATER USE (Check one)  □ A. RESERVOIR, RECREATION DRINKING WATER SOURCE		ON, ECONOMICALLY NT RESOURCES	r □ c. c	OMMERCIA	AL, INDUSTRIAL	0	D. NOT CURRENTLY USED
02 AFFECTED:POTENTIALLY AFFECTED BO	DIES OF WATER						
NAME:					AFFECTED		DISTANCE TO SITE
DRIED INDIA	N CREGO	,			<b>5</b>		0.2
	N 9-EAG				<b>&gt;</b>	-	(mi) (mi)
						_	(mi)
V. DEMOGRAPHIC AND PROPERT	VINEORMATION						
01 TOTAL POPULATION WITHIN	· iiii Oiliaxiioii	<u></u>	······································	02	DISTANCE TO NEAR	ST POP	ULATION
_	O (2) MILES OF SITE	THOSE /	3) MILES OF S	•			
11 700	NO. OF PERSONS	c	O OF PERSONS	-		0.	(mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2)	MILES OF SITE		04 DISTANCE	TO NEARES	T OFF-SITE BUILDING	3	
ioc`	S				<b>∠0.</b>	1	(mi)
05 POPULATION WITHIN VICINITY OF SITE (		dantus of converse areas					
WITHIN LES HOUSING, THE	S THAN Y	MILE OF	THE &	ITE	IS RESID	E157	14L
1 4/							

EPA FORM 2070-13 (7-81)





### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENT	IFICATION
OLSTATE	02 SITE NUMBER WO 2-99

<b>VEFA</b>	PART	5 - WATER, DEMOGRAPH	IC, AND ENVIRONMENTA	LDATA G	A WO299	
VI. ENVIRONMENTAL INFORMATION						
01 PERMEABILITY OF UNSATURATED ZONE (Check one)						
□ A. 10 <sup>-6</sup> – 10 <sup>-</sup>	6 cm/sec	☐ 8, 10 <sup>-4</sup> + 10 <sup>-6</sup> cm/sec ☐	C. 10 <sup>-4</sup> = 10 <sup>-3</sup> cm/sec □ D	. GREATER THAN	10 <sup>-3</sup> cm/sec	
02 PERMEABILITY OF BEDROCK (Check	one)			······································		
☐ A. IMPERA	MEABLE 10 <sup>-6</sup> cm/see)	B. RELATIVELY IMPERMEASI	LE C. RELATIVELY PERMEA	BLE D. VERY	PERMEABLE men 10 <sup>-2</sup> crivseci	
03 DEPTH TO BEDROCK	04 DEPTH	OF CONTAMINATED SOIL ZONE	05 SOIL pH			
(m)		(m)		_		
06 NET PRECIPITATION	07 ONE YE	AR 24 HOUR RAINFALL	08 SLOPE DIRECTIO	N OF SITE SI OPE	, TERRAIN AVERAGE SLOPE	
(in)		(in)			**************************************	
09 FLOOD POTENTIAL		10				
SITE IS IN YEAR FLO	OOPLAIN	SITE IS ON BARRI	ER ISLAND, COASTAL HIGH HAZ	ARD AREA, RIVER	RINE FLOODWAY	
11 DISTANCE TO WETLANDS IS acre miner	num)		12 DISTANCE TO CRITICAL HABITA	T (of endangered specie		
ESTUARINE		OTHER			(mi)	
A(mi)	8	(mi)	ENDANGERED SPECIES	·	<del> </del>	
13 LAND USE IN VICINITY			<u> </u>			
DISTANCE TO:						
COMMERCIAL/INDUSTR	RIAL	RESIDENTIAL AREAS; NATION FORESTS, OR WILDLIF		AGRICULTI IME AG LAND	URAL LANDS AG LAND	
A. <u>LO11 (mi)</u>		B	(mi) C	(mi)	D(mi)	
14 DESCRIPTION OF SITE IN RELATION	TO SURROUN	IDING TOPOGRAPHY			•	
TERRAIN	1 15 5	LIGHTLY HILL	. THE SITE	15 LUG	760	
ONTHE PLA	TEAL	OF A MEDIA	um-SIZED H	144		
VII. SOURCES OF INFORMATIO	N ICAO SDOCA	c references, e.g., state files, sample analysis.	reports)			
USAS TOP	) MA	م				

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SFPA		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 6 - SAMPLE AND FIELD INFORMATION	I. IDENTIFICATION  01 STATE 02 SITE NUMBER  A WU299	
IL SAMPLES TAKEN				
SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	O3 ESTIMATED DATE RESULTS AVAILABLE	
GROUNDWATER				
SURFACE WATER				
WASTE	4	SOUTHEASTERN LABS	9-10-87	
AIR				
RUNOFF				
SPILL				
SOIL.		SOUTHEASTERN LABS	9-10-87	
VEGETATION				
OTHER				
III. FIELD MEASUREMENTS T	TAKEN			
01 TYPE	02 COMMENTS			
			<del></del>	
<u> </u>				
IV. PHOTOGRAPHS AND MA	PS			
01 TYPE STOUND C AERIA	AL		INC 747	
03 MAPS 04 LOCATION OF MAPS  □ YES				
V. OTHER FIELD DATA COLL	ECTED (Browns asserted as			
201 8076		IBING SAMPLE COLLECTION		
·				
·				
VI. SOURCES OF INFORMAT	10N /Cita specific information	a a creation company pagents		
TI. SOUNCES OF INFORMAT	TOTA (GRA Specific /elerences.	T. y., state mes. Semble emprate, (Special)		
)			•	
}		·		

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### SEPA

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 7 - OWNER INFORMATION

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

6A WO 299

	PART 7 - OWN	WNER INFORMATION GA WOZ			
II. CURRENT OWNER(S)  01 NAME  RICHARD ELLEN BURL ETRUSTEE  03 STREET ADDRESS IP 0 BOE, APD 4, ORC.]  104 SIG CODE		PARENT COMPANY // appircable)			
		OS NAME		09 0 + B NUMBER	
W	04 SIC CODE	10 STREET ADDRESS IP O. Box. RFD #. etc		11 SIC CODE	
OB STATE	30318	12 CITY	13 STATE	14 ZIP CODE	
	02 D+8 NUMBER	OB NAME		09 D+8 NUMBER	
·	04 SIC CODE	10 STREET ADDRESS IP. O. Box, AFD 4, etc.	:.)	11 SIC COO€	
06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
	02 D+8 NUMBER	OB NAME		09 D+8 NUMBER	
······································	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFO F, occ	:,	11SIC CODE	
06 STATE	07 ZIP CODE	12 GTY	13 STATE	14 ZIP CODE	
1	02 D+8 NUMBER	OS NAME		09 0+8 NUMBER	
	04 SIC CODE	10 STREET ADDRESS (P 0 Box. RFD #, exc	:,j	1 1 SIC CODE	
06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
	<u> </u>	IV. REALTY OWNER(S) III apparable	: ast most recent first)	1	
	02 D+8 NUMBER	01 NAME		02 D+8 NUMBER	
	04 SIC CODE	03 STREET ADDRESS (P O Boz. AFD + st	C.1	04 SIC CODE	
06STATE	07 ZIP CODE	05 CITY	OS STATE	07 ZIP CODE	
	02 D+8 NUMBER	01 NAME		02 D+8 NUMBER	
	04 SIC CODE	03 STREET ADORESS IP O. Box. RFO . es	e.)	04 SIC COD€	
06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE	
	02 D+8 NUMBER	OI NAME		SEMUN 8+C SC	
	04 SIC CODE	03 STREET ADDRESS (P O Bos. AFD ) and	:1	04 SIC CODE	
06 STATE	UT ZIP CODE	OS CITY	06 STATE	07 ZIP CODE	
chic references.	e g., stata liles, samore analysi	s. (eqq.(18)			
	OB STATE  OB STATE  OB STATE  OB STATE  OB STATE  OB STATE	OS STATE OF ZIP CODE  OB STATE OF ZIP CODE	02 D+8 NUMBER  04 SIC CODE  10 STREET ADDRESS (P. O. Box. RFD P. MC  05 STATE   07 ZIP CODE  04 SIC CODE  10 STREET ADDRESS (P. O. Box. RFD P. MC  04 SIC CODE  10 STREET ADDRESS (P. O. Box. RFD P. MC  04 SIC CODE  10 STREET ADDRESS (P. O. Box. RFD P. MC  11 STREET ADDRESS (P. O. Box. RFD P. MC  05 STATE   07 ZIP CODE  11 STREET ADDRESS (P. O. Box. RFD P. MC  12 CITY  13 STREET ADDRESS (P. O. Box. RFD P. MC  14 SIC CODE  15 STREET ADDRESS (P. O. Box. RFD P. MC  16 STATE   07 ZIP CODE  17 STREET ADDRESS (P. O. Box. RFD P. MC  18 SIC CODE  19 STREET ADDRESS (P. O. Box. RFD P. MC  19 STREET ADDRESS (P. O. Box. RFD P. MC  10 STREET ADDRESS (P. O. Box. RFD P. MC  10 STREET ADDRESS (P. O. Box. RFD P. MC  10 STREET ADDRESS (P. O. Box. RFD P. MC  10 STREET ADDRESS (P. O. Box. RFD P. MC  10 STATE   07 ZIP CODE  10 STREET ADDRESS (P. O. Box. RFD P. MC  10 STATE   07 ZIP CODE  10 STREET ADDRESS (P. O. Box. RFD P. MC  10 STATE   07 ZIP CODE  10 STREET ADDRESS (P. O. Box. RFD P. MC  10 STATE   07 ZIP CODE  10 STREET ADDRESS (P. O. Box. RFD P. MC  10 STATE   07 ZIP CODE  10 STREET ADDRESS (P. O. Box. RFO P. MC  10 STATE   07 ZIP CODE  10 STREET ADDRESS (P. O. Box. RFO P. MC  10 STATE   07 ZIP CODE  10 STREET ADDRESS (P. O. Box. RFO P. MC  10 STREET ADDRESS (P. O. Box. RFO P. MC	PARENT COMPANY   ** applicable**	



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I. IDENTIFICATION					
O1 STATE	02 SITE NUMBER				
GA	W0299				

			PARI 8 - UPERA	IATOR INFORMATION			
II. CURRENT OPERATOR (Provide 4 different from current)				OPERATOR'S PARENT COMP	ANY (# applicable)		
DI NAME			02 D+8 NUMBER	10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Bo	u, RFD +, etc.)		04 SIC COO€	12 STREET ADDRESS (P.O. Box, AFD #, et	vc.)	13 SIC CODE	
DS CITY		6 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE	
DE YEARS OF OPERATION	09 NAME OF OWNER	1	<del></del>				
III. PREVIOUS OPERAT	OR(S) (Lust most recent first	: pravide only	y 4 different from awner)	PREVIOUS OPERATORS' PAR	ENT COMPANIES #	eopicable)	
1 NAME			02 D+8 NUMBER	10 NAME		11 D+8 NUMBER	
D3 STREET ADDRESS (P O. &c	u, RFO P. etc.)	L	04 SIC CODE	12 STREET ADDRESS (P.O. Bos, AFD #. o	re.)	13 SIC COD€	
DS CITY	[	6 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP COD€	
DE YEARS OF OPERATION	09 NAME OF OWNER DU	IAING THIS	PERIOD				
01 NAME	<u> </u>		02 D+B NUMBER	10 NAME		11 D+8 NUMBER	
O3 STREET ADDRESS (P. O. Box, RFD #, eve.) 04 SIC CODE			04 SIC CODE	12 STREET ADDRESS (P.O. Best, RFD #, et	ts.)	13 SIC CODE	
OS CITY		6 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE	
08 YEARS OF OPERATION	09 NAME OF OWNER OF	URING THIS	S PERIOD		·	<u> </u>	
) I NAME			02 D+8 NUMBER	10 NAME		11 D+8 NUMBER	
03 STREET ADDRESS (P.O. do	A, RFO F, HC.)	11	04 SIC CODE	12 STREET ADDRESS (P.O. SOL, AFD P	ite.)	13 SIC CODE	
DS CITY	1	6 STATE	07 ZIP COOE	14 CITY	15 STATE	16 ZIP COD€	
DB YEARS OF OPERATION	09 NAME OF OWNER D	URING THIS	S PERIOD				
IV. SOURCES OF INFO	RMATION (Cite assection	references, e	l.g., state files, sample enery:	1			
				•			
				•			

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### SEPA

### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION

	I. IDENTIFICATION					
01 STATE	02 SITE NUI	MBER				
GA	02 SITE NUI	297				

· · · · · · · · · · · · · · · · · · ·	PARIS	- GENERATOR/	RANSPORTER INFORMATION		100 24
II. ON-SITE GENERATOR					
01 NAME		02 D+8 NUMBER	,		
D3 STREET ADDRESS (P.O. Box, AFD F. etc.	<u> </u>	04 SIC CODE	-		
DS CITY	06 STATE	07 ZIP CODE	-		
· · · · · · · · · · · · · · · · · · ·			<u> </u>		
III. OFF-SITE GENERATOR(S)					
01 NAME		02 D+8 NUMBER	01 NAME		02 D+8 NUMBER
D3 STREET ADDRESS IP 0 Box, RFD P. etc.	,	04 SIC CODE	03 STREET AODRESS (P.O. Box, RFO P. etc.)		04 SIC COD€
OS CITY	06 STATE	07 ZIP CODE	05 CITY	OB STATE	O7 ZIP CODE
OT NAME		02 0+8 NUMBER	01 NAME		02 D+8 NUMBER
D3 STREET ADDRESS (P.O. Box, RFO F. MC.)		04 SIC COD€	OJ STREET ADDRESS (P.O. BOX, RFD #, etc.)		04 SIC CODE
05 CITY	26 STATE	07 ZIP CODE	OS CITY	O6 STATE	07 ZIP COOE
IV. TRANSPORTER(S)					
		02 D+8 NUMBER	01 NAME		02 0+8 NUMBER
D3 STREET ADDRESS (P. O. Box, AFD F. etc.	<u> </u>	04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD P. etc.)	<del>_</del>	04 SIC CODE
DS CITY	06 STATE	G7 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
DI NAME		32 D + 8 NUMBER	01 NAME		02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box. AFO P. etc.)		04 SIC CODE	C3 STREET ADDRESS (P. O. BOAL RFD P. etc.)		04 SIC CODE
OS CITY	OG STATE	07 ZIP CODE	05 CTY	D6 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION	(Cre specific references.	e.g., state files, sample analys	ія. /еволя)		



### **\$EPA**

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

GA W0299

	PART 10 - PAST RESPONSE ACTIVITIES	WA 1 WO 1299
PAST RESPONSE ACTIVITIES		
01 C A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY
04 DESCRIPTION	•	•
01 G B. TEMPORARY WATER SUPPLY PROVIDE	D 02 DATE	03 AGENCY
04 DESCRIPTION		
01 C. PERMANENT WATER SUPPLY PROVIDE	D 02 DATE	03 AGENCY
04 DESCRIPTION		
01 C D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
04 DESCRIPTION		
01 C E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
U4 DESCRIPTION		
01 C F. WASTE REPACKAGED	02 DATE	03 AGENCY
04 DESCRIPTION		
01 C G. WASTE DISPOSED ELSEWHERE	O2 DATE	03 AGENCY
04 DESCRIPTION		
01 ☐ H. ON SITE BURIAL	02 DATE	03 AGENCY
04 DESCRIPTION		
01 [] I, IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION		
01 C J. IN SITU BIOLOGICAL TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION		
01 C K. IN SITU PHYSICAL TREATMENT	O2 DATE	03 AGENCY
04 DESCRIPTION		
01 D L ENCAPSULATION	02 DATE	03 AGENCY
04 DESCRIPTION		
01 G M. EMERGENCY WASTE TREATMENT	O2 DATE	03 AGENCY
04 DESCRIPTION		
01 G N. CUTOFF WALLS	02 DATE	03 AGENCY
04 DESCRIPTION		
01 O. EMERGENCY DIKING/SURFACE WATER	DIVERSION 02 DATE	03 AGENCY
04 DESCRIPTION	•	
01 ☐ P. CUTOFF TRENCHES/SUMP	02 DATE	03 AGENCY
04 DESCRIPTION		
01 Q. SUBSURFACE CUTOFF WALL	02 DATE	03 AGENCY
04 DESCRIPTION		

•		<b>A</b> 4
	<b>}</b> ⊸∔	Δ
		$\boldsymbol{\Gamma}$

	TIFICATION	
ĺ	OI STATE	02 SITE NUMBER
	61	WO 299

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<b>⇒EPA</b>	PART 10 - PAST RESPONSE ACTIVITIES	64 WO 299	
II PAST RESPONSE ACTIVITIES (Continued)			
01 - R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 C. S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY	
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 © U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 T. V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 ( W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY	
01 ☐ X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY	
01 C Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 T 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	O2 DATE	03 AGENCY	
01 = 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 X 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE 8-24-87	03 AGENCY CITY OF COUNTY 7011	

BARRIER TAPE PUT IN PLACE

III. SOURCES OF INFORMATION (Cité specific references e.g., state files, sample analysis, reports)





#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION				
ONSTATE A-	WC 299			

и.	ENFC	RCEM	ENT	INFO	чм а	TION

01 PAST REGULATORY/ENFORCEMENT ACTION 🗆 YES 🗆 NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cre specific references, e.g., state Mes, sample energies, records)



		UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA G . A . D . 9 . 8 . 1 . 2	.2 .6 .3 .3 .	5 0 Pari	ment No.	2. Pag 1 of	not requ	ired by F	e shaded areas is ederal law.				
1	3. (	Generator's Name and Mailing Address					A. Sta	te Manifest Docu	nent Num	ber				
4		Spectrum Printing 4132 Highway 278 Covingto	6 W	STINGHOUNG ALOUAN OR	SAH S	TECH		11 0170A		ji sa target				
Н			~ -	es banoit	وربع	BILLIO	. 12	te Generator's ID						
П		Generator's Phone (404 ) 981-9332	₩ E	LATUR, G		25		A A LANGE						
Ш		Transporter 1 Company Name	o. Icad	US EPÀ ID 9 .8 .1 .:		000				5_8006 # 536				
		EASE Transportation Inc.  Transporter 2 Company Name	8.	US EPA ID		0. 0. 0.	.0 Du Transporter's Phone 04 455-8996							
Ш	£	ASE TRANSPORTATION	I INC. IG.			0.0.0				CONTRACTOR				
П	9. 1	Designated Facility Name and Site Address	10.	US EPA ID	Number		G. Sto	te Facility's ID	Y 34,5	USS CONTROL IN				
П		Tricil Recovery Service In					3	K CO	State Park					
П		Ave. D North Rt. 3 Box 249 Bartow FL. 33830		D.9.8.0	7 2 0	6 1 0	H. Fac	ility's Phone 813 533–6	111					
П		<del></del>	<del>-</del> _		, , 2 , ,	12. Cont	Ļ,	13.	14.	<del>4.</del>				
Н	11.	US DOT Description (Including Proper Shipping	Name, Hazerd Class, and	i ID Number)		No.	Type	Total Quantity	Unit Wt/Vol	Voste No.				
П	a.					110.	1750	Quantity	<b>B</b>	EOO3				
П	u.	X RQ Waste Combustible Li	quid, n.o.s.	N <del>a 1993</del>		96		< 100	9	F003 F005				
		Combustible Liquid	A1993 (FOO3/F	icc5 bis		16.	D.M	<del>\$2.</del> 80 .	1	F003				
G	b.													
E									1					
N E R						· · ·	·		<del>                                     </del>	1.3				
A	C.							!						
R									1 !					
П	d.													
Н	-								1 .					
П						<u> </u>	·							
	k.	dditional Descriptions for Margital Later Abor	( 284 AL	constant.	-		K. Hai	ndling Codes for	Wastes Lis	led Above				
		THE CASE OF THE PARTY OF THE PA			12.		- 34			11.0				
П	į.		ومروان ورائي الرابي			1			14					
П		The state of the s		والمستعددة والمستراف المعالمين	1	1111			7 10	-1-4-1-10 A				
$\Pi$	15.	Special Handling Instructions and Additional In	formation											
П		In case of emergency call	1 800 424-930	00										
П		3												
Н	16.	GENERATOR'S CERTIFICATION: I hereby declare	that the contents of this con	signment are fully a	nd accurate	ly described	above b	y proper shipping no	me and ar	e classified, packed,				
П		marked, and labeled, and are in all respects in prope	condition for transport by t	nighway according t	o applicabl	e internation	al and n	ational government	al regulatio A	15. raly by				
П		If I am a large quantity generator, I certify that I have a and that I have selected the practicable method of tract	nent, storage, or disposal cut	rently available to $\pi$	e which min	imizes the pr	sent and	future threat taken	an health c	and the environment;				
		OR, if I am a small quantity generator, thave made a g afford.	sed laith effort to minimize	my waste generation	and sereta	best was	e manaç	jement method that	is available	to me and that I can				
¥		Printed/Typed Name		Signature	n n			4- 4	м	onth Day Year				
1		Richard D. Allenberg as Ti	rastere	Ford VE	My a	Into	9 1	pertile		3 21 89				
Į.	-	Transporter 1 Acknowledgement of Receipt of A	laterials		LA A S	7-048	56-A	DK n BD		· o - L 8/18/88				
ANSPORTER	1	Printed/Typed Name	-01200 -	Signature	> \	<u> </u>			, M	onth Day Year				
P	18.	Transporter 2 Acknowledgement of Receipt of A	laterials			1, ->	_			215.10.1				
<u> P</u>		Printed/Typed Name	······································	Signature		<del></del>		<del></del>	M	onth Day Year				
Ř									1	.   .   .				
7	19.	Discrepancy Indication Space				•								
F														
Ĉ														
Ĭ	20	Facility Owner or Operator: Certification of rece	ipt of hazardous materi	als covered hu shi	s manifes	except of	noted in	Item 10	<del></del>					
Ī		. Caming white or operator, confined on the	.p. or nazaraous maleri	torered by Ini		except us	eu III							
Ý		Printed/Typed Name,	, ,	Signature /			7			onth Day Year				
		HAYES H	ENSON	Ho	ryl	so	en	son		3129189				
					7									

GAD9812263

5280 Panola Industrial Blvd., Decatur, GA 30035 4. Generator's Phone ( 404 )981-9332

**WASTE MANIFEST** 

5. Transporter 1 Company Name

3. Generator's Name and Mailing Address Spectrum Printing

EASE Transportation, Inc.

							-		
		Form	Approved OMB No	o. 2050-	0039. Ex		/3q/ -30-01		
No. Manifest Do	cument No	. T		ation in	· ·				
2633 60170	ח ו	101		equired					
			A. State Manifest Document Number						
ur, GA 30035		B. State Generator's ID							
3. US EPA ID Numbe	er	C. S	ate Transporter	's ID	<del>.</del>				
G A D 9 8 1 2 3	300		ansporter's Pho		4-45	5-89	96		
B. US EPA ID Number	∍r		ate Transporter						
O HEEDAIDAL			ansporter's Pho	ne					
10. US EPA ID Numbe	∋r	JG. 5	tate Facility's ID						
		H. F	acility's Phone						
FLD98072	961		813-533	611	1				
ard Class and ID Number)	12. Conta		13. Total	14. Unit		I. aste No			
ur ciass and it Number)	No.	Туре	Quantity	Wt/Vol	770		,. 		
o.s., NA 1993	.,		220		FOO	03			
5)	14	DМ	220	G	FOO	-			
				_					
o.s., NA 1993	10		<		FOO	)3			
5)	10	DΜ	<u> </u>	G	FOO	)5			
M									
o.s., NA 1993	12		110		FOC	_			
<u> </u>		DМ	•	G	FOC	)5			
o.s., NA 1993			7			13			
i)	15	D M	412	F003 F005					
	<u> </u>		ndling Codes fo	G r <b>Was</b> te			θ		
Estate in the second	3 M		400						
TRSI: 3408				,					
TRSI 3409					٠,				
		L	<u></u>						
-424-9300									
of this consignment are fully and					·				
d, and are in all respects in proci		ior trans	sport by nighway						
place to source the volume and									
Sthod of treatment, storage, or nall quantity generator, I have m									
Signature		· · · · · · · · ·			Month	Dav	Year		
at 6 Kind & Elen	a Pat	_		ĺ	MOIIIII   ラー	24	29		
		40	rder 81161	188					
Signature		<u> </u>			Month	Day	Year		
5	<b>~</b>	4		<b>〜</b> (	BI	27)	89		
		1							
Signature					Month	Day	Year		

	7.	Transporter 2 Company Name	US EPA ID Number E. State Transporter's ID							
١			L			F. Tr	ansporter's Phor	10		
1	9.	Designated Facility Name and Site Address	10	0. US EPA ID Number		G. S	tate Facility's ID			
		Tricil Recovery Service, Inc.								
		Ave. D North Rt. 3, Box 249				H. Fa	acility's Phone			
		Bartow, FL 33830	F	F L D 9 8 0 7 2 9	610	}	813-533	-611	1	l
ı		LIO DOT Description (Including Description March 11)		4 Ol 4 O Al	12. Conta	iners	13.	14.	- I.	
Ġ	ייין.	US DOT Description (Including Proper Shipping Name, Ha:	zaro	o class and it Number)	No.	Туре	Total Quantity	Unit Wt/Vol	Waste N	10.
ENER	a.	X RQ Waste Combustable Liquid, r (Combustable Liquid, F003, F00			4	DМ	220	G	F003 F005	
A T O R	b.	RQ Waste.Combustable Liquid, n (Combustable Liquid, F003, F00			10	DМ	550	G	F003 F005	
	C.	X RQ Waste Combustable Liquid, n (Combustable Liquid, F003, F00	o.s., NA 1993	2	DΜ	110	G	F003 F005		
	d.	RQ Waste Combustable Liquid, n (Combustable Liquid, F003, F00		5	D M	275	G	F003 F005		
	J.	Additional Descriptions for Materials Listed Above			K. Ha	ndling Codes for	Waste	s Listed Abov	ve	
	**5		IRŠI 3408 IRSI 3409				:	i i		
	15	Special Handling Instructions and Additional Information			1					
		In case of emergency call 1-80	)0	-424-9300						
	16	GENERATOR'S CERTIFICATION: I hereby declare that the content proper shipping name and are classified, packed, marked, and labe according to applicable international and national government regulf I am a large quantity generator, I certify that	eled, Jatio	l, and are in all respects in proper ions.	r condition (	for trans	sport by highway	ree I ha	va dalarmınad	lo be
		economically practicable and that I have selected the gracticable future threat to human health and the environment; 02 min a the best waste management method that is available to me and the		Thad of trantment atornes or dis	coocal aure	antlu ac	ailabla ta ma whiai	h minimi	TAC the erecon	
Ţ		Printed/Typed Name		Signature					Month Day	Year
Y	Ri	Land 8, Ellon berg as Transferd Spectrum Pr	~~	16 Kind D Eleva	12	-			7 24	89
Ţ	17	Transporter 1 Acknowledgement of Receipt of Materials	4	me 20 /487 - 04856	BDA,	ero	rder 8/16/	18		
AN	1	Printed/Typed Name		Signature	~			<u> </u>	Month Day	Year
S	$\Box$	Mich 2 Musselman	_	D-51		7			33 RJ	187
Ö	18	Transporter 2 Acknowledgement of Receipt of Materials	<u>.                                    </u>							
18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature									Month Day	Year
F40-1-FY		. Discrepancy Indication Space								
Į	20	Facility Owner or Operator: Certification of receipt of haz	ardo		nis manife	st ext	ept as noted in It	em 19.		
Ÿ		Printed/Typed Name	,	Signature	<i>+</i> -	1	· 1-1		Month Day	Year
	Z	THRIHA HHMILTON	<u></u>	Y March	00 X	11	nulles	<u></u> _	03 29	89
Sty	le F1	5REV-6 Labelmaster, Div. of American Labelmark Co. 60646 (3	312)	2) 478-0900	EPA	Form 8	3700-22 (Rev. 9/86)	Previou	s editions are o	bsolete.

AL	JNIFORM HAZARDO	US 1 Generator's US	EPA ID No.	Manifest Do	cument No	2. P	age t inform	nation in	the shaded areas
TI `	WASTE MANIFEST		2 2 6 3	3 5 0 1 7 0	Ε	101	T 6 1	required	by Federal law.
3.	Generator's Name and Mailin					A. St	ate Manifest D	ocument	Number
	Spectrum Printing								
Ш	5280 Panola	Industrial Blv	d., Decat	ur, GA 30035	5	B. St	ate Generator's	s ID	j
	Generator's Phone ( 404				<del></del>				
5.	Transporter 1 Company Nam		6.	US EPA ID Numbe		1	ate Transporte		
	EASE Transportati			D 9 8 1 2 3					4-455-8996
7.	Transporter 2 Company Nan	ne	8.	US EPA ID Numbe	er		ate Transporte		
_	. ···					<del></del>	ansporter's Pho		
9.	Designated Facility Name an		10.	US EPA ID Numbe	er	G. St	ate Facility's ID	)	
	Tricil Recovery S			<u></u>	777. 1 05				
	Bartow, FL 3	n Rt. 3, Box 24		JH. Fa	acility's Phone	_			
	Dareow, FL 3	33630	9 6 1	inere l	813-533-4	$\frac{6111}{14}$			
11	1. US DOT Description (Includ	ling Proper Shipping Nam	ne, Hazard Class	s and ID Number)			Total	Unit	Waste No.
-	HM				No.	Туре	Quantity	Wt/Vot	
a.	A RQ Waste Com	nbust <b>á</b> ble Liqui		, NA 1993			000	} }	F003
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r b.			<del></del>	<del></del>	<del> </del>			1	
٥	X   KQ Waste,Com	nbust <b>á</b> ble Liqui	d, n.o.s.	, NA 1993	1	}	00.	1 1	F003
	(Combustable	Liquid, F003,	F005)		ن	D M	330	G	F005
C.	06 \ 100 C	D rila		- 1.3 - 6.41					200
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) J.	a. TRSI 3410	(	3405	2) 12 drs apre (t	retur ramp)	K. Ha Me of	ndling Codes to	or Waste	S Listed Above
J.	·	CTRSI	3405	C) 12 drs spec (t Transpo	retur ramp) rtat	ox	20n 3/	30/	89.
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STATE OF ARKANSAS Department of Pollution Control and Ecology P. O. Box 9583 Little Rock, Arkansas 72219

Telephone 501-562-7444

	elite (12-pitch) typewriter.)							
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. G  A  D  9  8  1  2  2  6  3  3	Manifest Document No. 51 9 3 2 6 2	2. Pag 1 of		by Feder	shaded areas al law.	s is not	
3. Generator's Name and Mailing Address Spectrum Printing 5280 Panola Industrial Bl 4. Generator's Phone ( 404 ) 981-93	vd., Decatur, GA 30035	1. July 18	AR-393262					
5. Transporter 1 Company Name  EASE Transportation, Inc.	**. · · · · · · · · · · · · · · · · · ·	PA ID Number 2   3   3   0   0   0	GI 99 (1779-14 10-1 ТА 7ес1086 н401 0 0 Transporter's Phone 404-455-8996					
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9. Designated Facility Name and Site Address	10. US E	PA ID Number	4	Facility's ID		<del></del>		
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J. Additional Descriptions for Materials Listed Above	្នុក នេះ ខេត្តពុក្ស នេះ	d comment 18						
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### STATE OF ARKANSAS **Department of Pollution Control and Ecology**

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WASTE MANIFEST	G   A   D   9   8   1   2   2   6   3   3	15 19 13 17	21613	101	1 required	by Feder	al law.
3. Generator's Name and Mailing Address					Manifest Documer		
Spectrum Printing				AR-	-39326	3	
5280 Panola Industrial Bly	d., Decatur, GA 30035	3 3 7 7 7	3.45	B. Stay	RUCTOR	TEN	
4. Generator's Phone ( 404 ) 981-933	32					31.	
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EASE Transportation, Inc.	1G   A   D   9   8   1	2 3 3 3 (	01010	<u> </u>	eporter's Phone-4	04=45	5-8996
7. Transporter 2 Company Name	8. US	EPA ID Numbe	r		Transporter's ID	PC	H
				J	sporter's Phone		<del></del>
9. Designated Facility Name and Site Address Pinners, Chemical Industrial		EPA ID Numbe	r	Constant	Facility's ID	สองใช้	
Rineco Chemical Industries 1007 Vulcan Rd.	•				ity's Phone		
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11. US DOT Description (Including Proper Shipping I	Name, Hazard Class, and ID Number)	1	No.	Туре	Total Quantity	Unit Wt/Vol	I. Waste No
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ticable and that have selected the practicable institute in relational relationships of disposal contently available to the which imminizes the present and dutire intent to imminize my waste generation and select the best waste management method that is available to me and that I can afford.

Y	Richard D. Ellenberg, Trustee	of Printing, Rud Para	Tru	Month Day Year
Ţ	17. Transporter 1 Acknowledgement of Receipt of Materials	Tongo, be less	7-A87-0485ADK	30 man 411/84
42 S	X TERRY Koalen	Signature	Kogh	Month Day Year
o	18. Transporter 2 Acknowledgement of Receipt of Materials		- /	
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	19. Discrepancy Indication Space			

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Mark Joseph	how Smil	Month Day Year
A Form 8700-22 (Rev. 9-88) Previous edition is obsolete.		

Signature

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**GENERATOR INITIAL COPY** 

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19. Discrepancy Indication Space

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### TELEPHONE CONVERSATION SUMMARY

### DYNAMAC CORPORATION

Lori C. Conway Call made by: May 10, 1994 Date of call:

Time of call: 1440

Signature/Date:

onway 5/10/94 Facility: Spectrum Printing

EPA ID No.: GAD982111767

Person(s) contacted: Brian Allen

> Title/Position: Executive Assistant

Organization: Newton County Commissioner's Office

Telephone number: 404-784-2000

Address (city/state): Covington, Georgia

General Subject: New County Reservoir

### Summary of Conversation:

Mr. Allen stated that the Newton County government owns and operates the reservoir on Cornish Creek which went on-line in 1992. Approximately 80 percent of the potable water in the county is provided by a filtration plant drawing from this reservoir. The dam for the reservoir is located just below the confluence of Cornish Creek and Little Cornish Creek. The reservoir itself forms a "Y" around Cornish Mountain following the 700-foot contour lines shown on a topographic map. A portion of the reservoir is actually located in Walton County; approximately 25% of the plant's capacity is available to Walton County, if needed, due to Walton County's contributions to the bond issue which provided the funding to build the reservoir. The filtration plant which treats the water from the Cornish Creek Reservoir is located at the reservoir.

Mr. Allen said that the city of Covington's water department does still utilize their intake on the Alcovy River. This intake is located where the Central of Georgia railroad tracks cross the Alcovy River, approximately one-half mile east of Alcovy. Water from this intake is pumped to the "city pond", the Covington Reservoir, which was built in the 1950s, and from there is pumped to the filtration plant located in the city limits of Covington.

Mr. Allen said that the water billing situation is very complex. The city of Covington still bills out most of the water, although most of the water is actually coming from the county's reservoir; therefore, although many of the residents are billed by the city of Covington, they are not necessarily drinking water from the city's filtration plant downtown.

### TELEPHONE CONVERSATION SUMMARY

### DYNAMAC CORPORATION

Call made by: Lori C. Conway Date of call: May 11, 1994

Time of call: 0835

Signature/Date of Comments Facility: Spectrum Printing

EPA ID No.: GAD982111767

+ 5/11/94

Person(s) contacted: Walter Thompson Title/Position: Lab Supervisor

Organization: City of Covington Water Department

Telephone number: 404-784-2125
Address (city/state): Covington, Georgia

General Subject: Covington Reservoir/Water Service Area

### Summary of Conversation:

Mr. Thompson confirmed that the Covington Reservoir, or "city pond", is still in use. Water from the intake on the Alcovy River is pumped to this reservoir located near the Covington Airport and from there to the filtration plant in town. He said there were no plans, to his knowledge, to close the "city pond" reservoir, although at one time it had been discussed because of the need for so many upgrades to the old filtration plant downtown. He said the necessary renovations were currently underway however.

Mr. Thompson confirmed that 20 percent of the potable water supplied to residents in the entire county comes from the intake on the Alcovy River and 80 percent from the new Cornish Creek Reservoir. Water from both sources becomes mixed in the distribution system, but there is no central location for blending of water from the two sources prior distribution.

### TELEPHONE CONVERSATION SUMMARY

### DYNAMAC CORPORATION

Call made by: Lori C. Conway Date of call: May 10, 1994

i C. Conway
10, 1994

Signature/Date: The Conway
Facility: Spectrum Printing

Time of call: 1420 EPA ID No.: GAD982111767

Person(s) contacted: Grady Ridgeway

Title/Position: Director

Organization: Newton County Water and Sewerage Authority

**Telephone number:** 404-787-1375

Address (city/state): Covington, Georgia

General Subject: Newton County Water System

### Summary of Conversation:

Mr. Ridgeway confirmed the information obtained by Coby Dolan of Dynamac Corporation in June 1992 regarding the county water system. The map of the system's lines dated 1989 is not complete. The county had a large expansion of their water line coverage area in 1992 when the new county reservoir on Cornish Creek went on-line. Therefore, the lines shown on Coby Dolan's field topo map are assumed to be the correct extent of the Newton County water system.

The new reservoir covers 820 acres, has a capacity of 3.9 billion gallons and is 38 feet deep at the deepest part. The dam is 1,450 feet in length. The reservoir is supplied by a 15,200-acre watershed and can supply up to 24 mgd. Newton County Water and Sewerage Authority supplies just over 5,000 connections directly. For more information on the reservoir, contact Brian Allen at the County Commissioner's office.

1. 3. 223/18.77 LTH-1-12

REFERENCE NO. 10

1990 CPH-1-12

1990 Census of Population and Housing Summary Population and Housing Characteristics

Georgia

Issued August 1991



U.S. Department of Commerce Robert A. Mosbacher, Secretary Rockwell A. Schnabel, Deputy Secretary

Economics and Statistics Administration Michael R. Darby, Under Secretary for Economic Affairs and Administrator

> BUREAU OF THE CENSUS Barbara Everitt Bryant, Director

S

### Table 6. Household, Family, and Group Quarters Characteristics: 1990

lfor definitions of terms and meanings of symbols, see text)

State	20. 20. (0.2)		Fo	mily household	<u> </u>		Nonfamily	households		Persons	per —	Person	is in group q	arters
County							House	eholder living	alone					
Place and [In Selected States] County Subdivision	Persons in	All house-		Married- couple	Female house- holder, no husband			65 years	and over				Institu- tionalized	Other per- sons in group
200division	households	holds	Total	family	present	Total	Total	Total	female	Household	Family	Total	Persons	quarters
The State	6 304 583	2 366 615	1 713 072	1 306 756	329 641	653 543	537 702	185 027	149 417	2.66	3.16	173 633	87 266	86 367
COUNTY Appling County	15 580	5 834	4 275	3 423	687	1 559	1 433	689	535	2 67	3 21	164	164	_
Alkinson County	6 209 9 436	2 210 3 442	1 647 2 645	1 299 2 000	268 539	563 797	517 742	282 376	229 301	2 81 2 74	3 33 3 17	130	121	- 9
Baker County	3 610	1 300	949	666 6 095	220	351	326 2 770	174	148 815	2 78 2 65	3 33 3.14	7 260	6 515	745
Baldwin County	32 270 10 292	12 165 3 775	8 735 2 973	2 563	2 183 283	3 430 802	724	353	281	2 73	3 13	16	16	_
Barraw County	29 489 55 485	10 676 20 091	8 361 15 665	6 828 12 828	1 149 2 149	2 315 4 426	2 016 3 861	1 605	765 1 326	2 76 2 76	3 15 3 17	232 426	209 336	23 90
Ben Hill County	15 923 13 859	5 972 5 149	4 343 3 950	3 153 3 208	1 007 569	1 629 1 199	1 505 1 105	766 530	620 427	2 67 2 69	3 22 3 13	322 294	252 108	70 186
	145 108	56 307	39 301	26 742	10 753	17 006	14 892	5 916	4 812	2 58	3 14	4 859	2 904	1 955
Bibb CountyBleckley County	10 005	3 816	2 864	2 223	534	952	884	452 278	369 217	2 62 2 90	3 09 3 25	425 8	121	304
Brooks County	11 069 15 026	3 811 5 392	3 109 4 040	2 598 2 881	384 974	702 1 352	629 1 223	628	496	2.79	3 30	372	279	93
Bulloch County	15 301 39 458	5 070 14 984	4 226 9 685	3 514 7 449	554 1 782	844 5 299	735 3 488	305	1 042	3 02 2 63	3.34 3.15	137 3 667	607	137 3 060
Burke County	20 363	7 037 4 696	5 288	3 482 2 822	I 543 686	1 749 999	1 573 872	738 408	564 308	2 89 2 89	3.41 3.31	216 1 769	216 1 653	116
Butts County	13 557 4 916	1 794	3 697 1 269	837	366	525	491	292	234	2 74	3.36	97	97	-
Camden County	27 328	9 459	7 472	6 152	1 003	1 987	1 609	415	311	2 89	3.28	2 839	130	2 709
Candler County	7 449 68 725	2 828 25 370	2 042 18 969	1 536 15 272	415 2 958	786 6 401	717 5 361	361 2 106	286 1 744	2 63 2 71	3 17 3 16	295 2 697	295 758	1 939
Catoosa County	42 109 8 384	15 745 2 911	12 366 2 257	10 301	1 621	3 379 654	3 033 573	1 306	1 096 190	2 67 2 88	3 06 3 32	355 112	305 112	50
Charlton County	209 677	81 111	56 560	40 929	12 997	24 551	21 036	8 128	6 444	2 59	3 14	7 258	3 936	3 322
Chattohoochee County	10 616 22 059	2 884   8 467	2 637 6 393	2 370 5 041	1 070	2 074	216 1 915	1 039	47 843	3 68 2 61	3 89 3 06	6 316 183	70 183	6 248
Cherokee County	89 441 79 604	31 309 33 170	25 760 18 182	22 476 12 864	2 324 4 40!	5 549 14 988	4 415 9 547	1 430 2 327	1 152 1 868	2 86 2 40	3 16 3 02	763 7 990	436 934	327 7 05é
Clarke County	3 287	1 210	874	556	258	336	318	182	136	2 72	3 30	77	74	3
Clayton County	180 489	65 523	48 734	37 003	9 216	16 789	13 035	2 392	1 935	2 75	3 19	1 563	1 246	317
Clinch County	6 034 444 691	2 173 171 288	1 655	1 257 99 966	313   15 516	518 51 175	476 36 537	208 6 826	170 5 634	2 78 2 60	3 25 3 10	126 3 054	96 1 978	3C 1 076
Coffee County	29 015 34 937	10 541 12 980	7 981 9 736	6 025 7 242	1 614 2 083	2 560 3 244	2 319 2 964	1 038	841 1 299	2 75 2 69	3 22 3 16	577 1 708	237 543	340 1 165
Columbia County	64 929	21 841	18 315	15 649	2 054	2 526	2 939	832	661	2 97	3 28	1 102	948	154
Cook County	13 172 53 381	4 825 18 930	3 607 15 020	2 789 11 907	649 2 482	218 3 910	1 116 3 394	589 1 449	489 1 186	2 73 2 82	3 22 3 20	284 472	128 456	156 16
Crawford County	8 809 19 599	3 069 7 287	2 412 5 300	1 896 3 595	396 1 491	657 1 987	577 1 808	238 678	178 717	2 87 2 69	3 29 3 23	182 412	108 408	74
	12 563	4 661	3 735	3 170	429	926	856	399	298	2 70	3 06	584	209	375
Dade County	9 377	3 360	2 734	2 357	268	626	536	186	151	2 79	3 12	52	29	23 3'7
Decatur County	24 748 535 454	8 962 208 690	6 675 137 603	4 743 98 941	1 634 j 31 277	2 287 7 087	2 082 52 645	1 028	819 9 789	2 76 2 57	3 27 3 12	763 10 383	446 6 283	4 100
Dodge County	16 627 9 730	6 387 3 557	4 687 2 582	3 550 1 779	952 693	700 975	1 609 913	844 509	684 413	2 60 2 74	3 12   3 31	980 171	980 143	2€
Dougherty County	93 017	34 163	25 10:	16 535	7 50C	9 062	7 966	2 767 1 107	2 224 887	2 72 2 90	3 24 3 27	3 294 786	1 156 664	2 13E 122
Douglas County	70 334 11 649	24 277 4 263	19 739 3 113	16 547 2 207	2 415 740	4 538 i 150	3 643 1 064	604	475	2 73	3 29	205	205	-
Echols County	2 319	816	654	548	78	162	153	63	48	2 84	3 26	15	-	15
Effingham CountyElbert County	25 <b>63</b> 6 18 <b>63</b> 4	8 759 7 115	7 149 5 314	5 921 4 078	928	1 610 1 801	1 422 1 680	560 883	439 719	2 93 2 62	3 28 3 10	51 315	51 263	52
Emonuel County	20 210 8 374	7 420	5 501 2 284	4 069	1 205	1 919 860	i 799 781	937 391	740 300	2.72 2.66	3 25 3 19	336 350	326 319	10 31
Evans County	15 863	3 144 6 334	4 844	4 126	528	1 490	1 401	753	590	2.50	2 92	129	120	Ģ
Floyd County	62 218 77 939	21 054 30 518	18 018 22 518	16 110 17 744	1 439 3 852	2 036 8 000	2 640 7 203	1 001 3 506	826 2 891	2.96 2.55	3 23 3 02	197 3 312	197 1 657	1 655
Forsyth County	43 792 16 286	15 938 6 365	12 787 4 787	11 164 3 960	1 113 629	3 151 1 578	2 590 1 480	964 776	775 604	2.75 2.56	3 07 3 02	291 364	276 166	15 1 <b>9</b> 8
Fulton County	626 974	257 140	155 887	99 206	47 519	101 253	79 746	21 475	17 301	2.44	3 11	21 977	8 405	13 572
Gilmer County	13 179	5 072	3 940	3 352	454	1 132	1 035	543	437	2 60	2 99	189	189	-
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Gordon County	34 749 20 001	12 778 7 354	9 939 5 571	8 238 4 218	1 320 1 116	2 839 1 783	2 530 1 638	1 116 884	917 726	2 72 2 72	3 13 3 19	323 278	322 242	1 36
Greene County	11 663	4 083	3 012	2 058	791	1 071 ]	974	503	385	2 86 2 77	3 42	130	107	23
Gwinnett County	351 247 25 817	126 971 9 966	96 396 7 672	82 398 6 525	10 481 846	30 575 2 294	22 501 2 108	3 637 973	3 035 787	2 59	3 18	1 663 1 804	1 559 1 493	104 311
Hall County	93 879 8 747	34 721 2 969	26 522 2 201	21 462 1 279	3 852 788	8 199 768	6 959 725	2 623 358	2 162 268	2 70 2 95	3.10 3.55	1 549 161	1 035 149	514 12
taralsan County	21 695	8 248	6 252	5 145	898	1 996	1 834	886	739	2.63	3 08	271	271	-
tarris County	17 624	6 454	5 092	4 169	714	1 362	1 234	559	421	2 73	3 12	164	164	- 4
Hart County	19 390 8 498	7 459 3 093	5 679 2 398	4 534 1 912	905 364	1 780	1 644 613	847 280	692 209	2 60 2 75	3 04 3 17	322 130	318 125	5
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ohnson County	8 168	3 010	2 221	1 630	516	789	745	415	339	2 71	3 26	161	161	32
orner County	20 519 12 759	7 300 4 669	5 801 3 568	4 605 2 704	936 703	1 499	1 343	470 487	363 385	2 81 2 73	3 21 3 18	220 279	188 120	159
orier County	5 460 38 830	1 965 14 514	1 505 10 822	1 144 8 092	297 2 294	460 3 692	418 3 374	186 1589	1 271	2 78 2 68	2 22 3 16	71 1 156	63 1 102	8 56
iee County	15 592 45 325	5 199 15 136	4 293 12 404	3 429 10 183	687 1 833	906 2 732	782 2 233	300 527	235 412	3 00 2 99	3 34 3 33	658 7 420	658 168	7 252
incoln County	7 397	2 702	2 059	1 557	387	643	593	305	231	2 74	3 23	45	28	17

Table 6. Household, Family, and Group Quarters Characteristics: 1990—Con.

to telinitions of terms and meanings of symbols, see text

State			Fam	wy household	s		Nonfamily	households		Persons	per —	Person	s in group q	warters
County							House	cholder living a	ione					
Place and [in Selected States] County Subdivision	Persons in	All house- holds	Facal	Married- couple	Female house- holder no husband	r <sub>otal</sub>	Forai	65 vears :	female	Household	Family	Zatal	Institu-	Other per sons is group
	households	noids	Total	family	present	10101	10101	10101	remale	nousenoid	raminy	Total	persons	guarters
COUNTY — Con.	6 119	2 196	1 683	1 383	218	513	447	'85	136	2 79	3 22	83	4	79
windes County	71 652 13 318	26 311 4 976	19 123 3 872	3 262	738 7315	7 188	5 744 962	2 :095 370	1 661 283	2 72 2 68	3 22 3 07	4 329 1 255	1 814 156	2 575
McDuffie County	19 862	7 270	5 508	3 985 1 689	1 286	1 762 815	1 558 730	676 349	539 246	2 73 2 71	3 19 3 19	257 12	232	2
Vacon County	8 622 12 826	3 186 4 388	2 371 3 322	2 099	1 046	1 066	991	513	412	2 92	3 46	288	288	
Vadison County	20 902 5 512	7 740 1 962	6 061 1 524	5 075 I 132	749 317	1 679 438	1 459 392	677 203	559 166	2 70 2 81	3.09	148 78	109 78	3<
Varion County	21 893	7 637	5 800	4 122	1 363	1 837	1 685	838	676	2.87	3 38	518	341	17
Miller County	6 184 19 986	2 336 6 798	1 741 5 254	1 334 3 533	319 1 457	595 1 544	554 1 414	316 759	250 632	2.65 2.94	3 14 3	96 289	96 212	7
Virchell County	16 509	5 838	4 547	3 549	800	1 291	1 130	477	374	2 83	3 25	604	599	
Montgomery County	6 714 12 705	2 493 4 399	1 842 3 442	i 432 2 588	323 681	651 957	599 854	313 417	235 : 329	2 69 2 89	3 20 3 32	449 178	213 158	23: 20
Murray County	25 980	9 363	7 499	6 238	891	1 864	1 528	606	488	2 77	3.14	167	161	
Juscopee Gounty	171 700 41 040	65 858 14 401	47 235 11 337	33 380 9 908	11 803 1 915	18 623 3 064	16 122   2 633	5 <b>84</b> 7 1 210	4 716 997	285	3.12 3.25	7 578 768	2 963 318	4 61
CORRE COUNTY	17 474	6 156	4 960 2 748	4 253 2 168	555 148	1 196 833	987 737	39.1 39.1	329 240	2 84 2 70	3 19 3 14	144 82	140 82	
grethorpe County	9 681 41 289	3 581 14 326	11 999	10 350	1 216	2 327	1 964	772	598	2.68	3 17	322	309	:
Pegch County	19 954	7 142	5 465	3 844	1 385	1 677	1 429	603	481	2.79	3 23	1 235	92	1 15
Perce County	14 252 13 262	5 386 4 807	4 239 3 759	3 607 3 104	455 507	1 147	1 05!	516 488	390 390	2.65 2.76	3 03 3 19	180 66	180 66	
ke County	10 100	3 526	2 824	2 385 7 404	317	702	647 2 833	321 1 518	255 1 217	2.86 2.67	3 26 3 13	1 24 405	124 379	2
Poik County	33 410 7 986	12 519 3 098	9 455 2 185	1 584	1 628 504	3 064 913	842	432	348	2 58	3.15	122	122	
Purnam County	13 856 2 205	5 229 857	3 938 626	3 043 428	702 167	1 291 231	1 118	429 112	330 72	2 65 2 57	3 07 3 06	281	277	
Patiman County	11 460	4 630	3 477	2 940	4:2	1 153	1 036	524	404	2 48	2 39	188	166	. 2
landoigh County	7 694	2 815	2 003	1 301	595	812	17 907	463 5 732	365 4 570	2.73 2.61	3 36	329 10 205	104 3 423	22 5 78
chmond County	179 514 53 546	68 675 18 337	47 685 15 121	32 988 !2 771	12 384	20 990   3 216	2 538	732	790	2.92	3 23	545	499	3 /0
chiey County	3 581	1 315 5 048	964 3 698	739 2 660	179 365	351 1 350	1 238	171 618	153 500	2 72 2 70	3.25	7 229	7 204	2
creven County	13 613 8 420	3 137	2 336	1 729	518	106	747	410	325	2 68	3 19	590	78	49
saiding County	53 513 22 688	19 425 B 949	14 901 6 633	11 014 5 453	3 222 E	4 525 2 316	3 374 2 131	1 771 1 385	1 467	2 76 2 54	3 18 3 300	344 569	838 90	47
tepnens County	5 543	1 982	1 439	921	<b>≟25</b>	543	505	280	213	2 80	3 40	111	111	
uniter County	28 811 6 517	2 345	7 610 1 765	5 Q34 1 188	2 275	2 874   580	2 544	1 387 263	885   199	2 75 2 78	3 30   3 28	1 417 7	771 7	64
skaferra County	1 915	727	492	344	119	235	230	142	114	2 63	3 32	_	_	
atrinoil County	15 251 7 632	5 845 2 804	4 272 2 070	3 276 ! 431	325 530	! 573   734	675	733 367	580 302	2 61 2 72	3 11 3 24	2 47? 10	2 189	28
elfair County	10 641	4 017	2 901	2 980	866	1 116	1 044	590	470	2 55	3 20	359	344	19
errell County	10 508 38 325	3 738 14 323	2 772 10 644	1 923 7 604	304 2 564	966   3 679	887 ( 3 342 (	1 951	393 1 333	2 8 I 2 6 8	3 34   3 16	145 661	145 580	9
if County	33 450	12 184	9 101	6 801	1 711 }	3 083	2 724	1 197	978	2 75	3 23	1 548	385 388	1 15
owns County	23 652 6 362	8 804 2 812	6 386 2 056	4 751 1 815	: 353 :83	2 418 756	2 179 712	973 367	778 285	2 69 2 26	3 23 2 69	420 392	78	3!-
reutien County	5 917	2 158	1 607	1 176	366	551	513	298	243	2 74	3 27	77	65	*:
raua County	54 500 8 586	20 371 3 043	14 980 2 331	11 053	3 292 576	5 391 712	4 771   573	2 231 379	: 927 312	2.68 2.82	3 !8	1 036 117	711 1:7	325
wiggs County	9 650	3 296	2 570	1 896	553	726	665	291	222	2 93	3 39	156	151	5
Invan County	11 769 25 <b>8</b> 40	4 709 l 9 911 l	3 653 7 335	3 182 5 467	355	2 576	780 2 377	535 1 282	1 046	2 SC 2 61	2 88 J 3 09 J	224 460	221 448	1
Joseph County	57 524	21 697	16 887	13 896	2 336	4 810	4 355	2 111	1 758	2 65	3 05	816	806	10
Nation County	38 229 33 788	13 433 13 046	10 749 9 416	8 634 7 068	1 513	2 584 3 630	2 332   3 311	1 101	1 317	2 85 2 59	3 22	357 1 683	357 1 593	90
Narren County	5 974	2   30	1 603	1 056	467	527	487	296	241	2 80	3 30	104 323	104 311	1
Vashington County	18 789 21 761	6 739 7 922	4 985 6 113	3 196 4 803	1 053	1 754	1 606 )	776 783	624	2.79 2.75	3 32	595	582	1
Vayne County	2 263	798	610	445	131	188	172	86	61	2 84	3.32	-	_	
Wheeler County	4 817 12 523	1 786 ( 4 907	1 331 3 798	1 028 3 285	235 ( 382 (	1 109	1 023	273 475	225 374	2.70 2.55	3.21 2.95	86 483	65 161	2 32
Whitfield County	71 808	26 859	20 506	16 611	2 940 ]	6 353	5 455	1 995 376	1 633 293	2.67 2.71	3 08 3 27	654 201	571 201	8
Vilcox County	6 807 10 511	2 511 4 022	1 833 2 932	1 389 2 132	360 646	678 1 090	640 I 908	566	415	2 61	3 12	86	86	
Yilkinson County	10 183 19 618	3 619 6 895	2 755 5 428	2 032 4 107	616 1 057	864 1 467	788   1 345	352 675	274 541	2.81 2.85	3.31 I 3.27 I	45 127	45 53	7
Vorth County	17 916	0 073	J 440	- 107	. 557	. 407	. ,-,	0/3	,	2 45	١	***		
LACE AND COUNTY SUBDIVISION										2/3	, ,	00	ne	
Dodge County	809	303	221	153	54	82	76	49	40	2.67	3 16	98 -	98 -	
Wikox County	809	303	221	153	54	82	76	49	40	2.67	3 16	98	98	
sworth city, Cobb County	4 517	1 758	1 260	1 017	199	498	402	153	137	2 57	3 04	2	2	
dairsville city. Bartow County del city. Coak County	2 131 4 927	772 1 793	587 1 289	391 859	160 359	185   504	168 466	95 246	78 207	2.76 2.75	3.19 3.33	166	128	3
drian city	615	238	170	116	45	68	62	33	30	2 58	3 08	-	_	
Emanuel County	293	113	86	64	18	27	26	15	14	2.59	2 98	-	-	
Johnson County	322	125	84	52	27	41	36	18	16	2 58	3.18	-	-	9
lley city, Montgomery County	484 849	183   319	135 232	100 162	24 56	48   87	45 85	26 58	22 49	2.64 2.66	3.15 3.24	95 6	6	
lapaha town, Berrien County	789	287	222	146	64	65	63	27	23	2.75	3 20	23 2 889	1 129	1 76
lbany city. Dougherty County	75 233 127	27 926 46	19 977 35	12 351 30	6 724 4	7 949	6 990	2 482 8	1 992	2 69 2 76	3 25 3 29	7 994	- 127	. /6
Henhurst town, Liberty County	594	210	163	138	20	47	38	11	10	2 83	3 20	-	-	
Hentown town	273	105	80	65	14	25	23	13	13	2 60	3 05	-	-	
Bleckley County Laurens County	2	7	ī	- 1	-	: 1		-	-	2 00	2 00	:	-	
Twiggs County	40	14 90	11	3	2	3	3	1 12		2 86 2 57	3 36 3 01	-	-	
		90 !	68	55	12	22	20 }	12	10	4 3/	3 (1)	-	_	-
Wilkinson County	231 3 533	1 397	959	571	355	438	417	234	191	2 53	3 11	130	121	

### TELEPHONE CONVERSATION **SUMMARY**

### DYNAMAC CORPORATION

Signature/Date: Un Odan Stalas Call made by: Coby C. Dolan

Dte of call: May 12, 1992 Facility: Atlanta Wood

Preserving

Time of call: EPA ID No.: GAD980556732 1150

Person (s) contacted: Roy Morris

Title/Position: Game Conservation Officer Organization: Newton County

Telephone number: (404) 787-0738 Address (city/state): Covington, Georgia

General Subject: Fisheries in the Yellow River and

Lakeview Lake.

Summary of conversation: Mr. Morris indicated that sport fishing in the Yellow River was very common, although he did not know the types of fish that could be found there. He also indicated that Lakeview Lake was a "pay" fishing spot. To the best of his knowledge a person by the name of Barney Angelin currently runs the pay fishing lake. Mr. Angelin may be found with the Covington Police Department.

S. DEPARTMENT OF COMMERCE THE H. HONGES, Seemlary

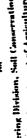
# TECHNICAL PAPER NO. 40

# RAINFALL FREQUENCY ATLAS OF THE UNITED STATES

for Durations from 30 Minutes to 24 Hours and Return Periods from 1 to 100 Years

Compressive Studies Section. Hydrobesic Services Dichina Property by DAVID M. HERSHFIELD

Engineering Dirision, Soil Congerntion Service 1:,S. Department of Agriculture





The atlases described below may be ordered on one reel of 35mm microfilm at \$12.50, or as individual paper pages at \$2 per page, \$4 service and handling charge per order.

(Prices subject to change without notice.)

National Climatic Data Center
Federal Building
Asheville, NC 28801-2696
704 CLI-MATE or 704-259-0682
Telex 6502643731



TP-40: Rainfall Prequency Atlas of the US - Weather Bureau Technical Paper No. 40 (Washington, DC: GPO, 1961) 14x21 ins, paper cover, 61 pages. (Superseded in part by two publications listed below.)

Presents 49 US rainfall frequency maps for selected durations from .30 minutes to 24 hours and return periods from 1 to 100 years. OUT-OF-PRINT, but a 8 1/2x14 in. reduced photocopy priced at \$15 is available from the NCDC address above. Make payment to "Commerce-NOAA-NCDC".

HYDRO-35: Five- to 60-Minute Precipitation Frequency for the Eastern and Central US - NOAA Technical Memorandum NWS HYDRO-35 (Silver Spring, MD: NWS, 1977) 8 1/2xll ins, cardstock cover, 36 pages. (Supersedes TP-40 above for the eastern 2/3 of the US for durations of 1 hr. and less).

Presents 6 US rainfall frequency maps for durations of 5, 15 and 60 minutes at return periods of 2 and 100 years. Equations are given to derive 10— and 30—min values between 2 and 100 years.

Order from: National Technical Info. Svc. Order No : PB 272-112 5285 Port Royal Rd. Prices: Paper \$8.50 Springfield, VA 22161 Microfiche \$4.50 Order Desk Phone: 703-487-4650

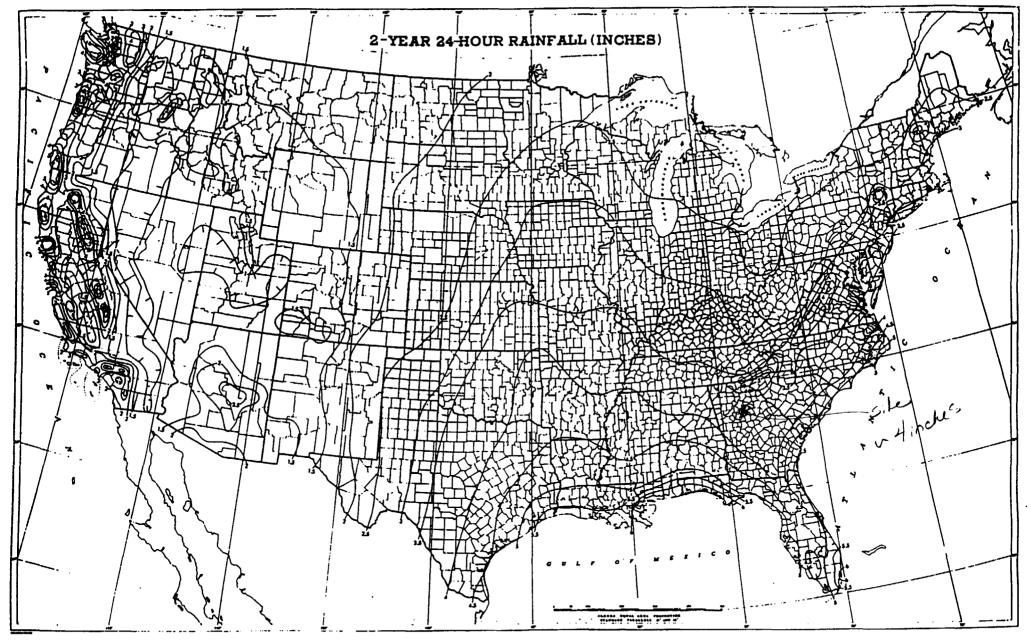
NOAA Atlas 2: Precipitation Frequency Atlas of the Western US (Washington, DC: GPO, 1973) 16x22 ins, cardstock cover, 11 Vols (Supersedes TP-40 above for the 11 western states) OUT OF PRINT.

This atlas contains maps for the 6- and 24-hour durations for return periods of 2, 5, 10, 25, 50, and 100 years. All maps are prepared on the same 1:2,000,000 scale.

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▼	Idaho	<b>3</b> 5	\$ 70.00
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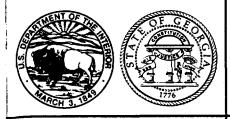
(Note: Topographic contours and city names not always legible on microprints of NOAA Atlas 2. Blank, numbered pages are not reproduced, resulting in apparent missing pages, but no data pages are missing.)

\$4 SERVICE AND HANDLING CHARGE PER ORDER.



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35



# Water Resources Data Georgia Water Year 1992

by W.R. Stokes III and R.D. McFarlane



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-92-1 Prepared in cooperation with the State of Georgia and with other agencies

REPORT DOCUMENTATION PAGE	REPORT NO.	USGS/WRD/HD-93/	264	2.ID-1430804	3.Recipient's Ad	ccession No.
4. Title and Subtitle					5. Report Date	
WATER RESOURCES DA	TA GEORGIA, W	ATER YEAR 1992			MARCH 31, 19	993
					6.	
7. Author(s) W.R. Stokes	, III and R. D. Mc	Farlane			8. Performing 0 USGS-WDR-	Organization Rept. No. GA-92-1
9. Performing Organization Nan					10. Project/Tas	k/Work Unit. No.
U.S. Geological Survey 3039 Amwiler Road, Si Peachtree Business Ce Atlanta, GA 30360-282	uite 130 enter	ces Division			11. Contract (C	) or Grant (G) No.
12. Sponsoring Organization Na U.S.Geological Survey, Peachtree Business Ce 3039 Amwiler Road	Water Resource	es Division			13. Type of Rep Annual 10/1/91 to	port & Period Covered 9/30/92
Atlanta, GA 30360-2824	4				14.	
15. Supplementary Notes Prepared in cooperation	with the State of	of Georgia and with of	her F	Federal agencies	S.	
16. Abstract (Limit: 200 words)	····			<u></u>		
Water-resources data quality of streams; star This report contains dis for 18 lakes and reserv for 101 crest-stage par water quality for 1 precollected by the U.S. G	ge and contents scharge records oirs; water qual tial-record static ipitation-quality ieological Surve	of lakes and reservoi of 114 gaging station ity for 143 continuing- ons and 7 miscellaneo site. These data repre	's; gr s; sta ecor us sit sent	round-water leve age for 27 gaging d stations; peak tes; water levels that part of the I	ls; and precipi g stations; stag s stage and dis of 25 observa National Water	tation quality. ge and contents scharge only tion wells, and Data System
<ul> <li>17. Document Analysis a. Des *Georgia, *Hydrologic da *Gaging stations, Lakes, Sampling sites, Water le</li> </ul>	ata, *Surface wa Reservoirs, Che	emical analyses, Sedir	Vatei nents	r Quality, *Precip s, Water tempera	oitation quality, atures,	Flow rate
b. Identifiers/Open-Ended Ten	ms					
c. COSATI Field/Group						
Th	restrictions on d	stribution. ourchased from the Commerce, NTIS		19.Security Class ( Unclassified	ThisReport)	21. No. of Pages 622
52	85 Port Royal Ro pringfield, VA 221	ad		20.Security Class (1 Unclassified	This Page)	22. Price

50272-101

### **ALTAMAHA RIVER BASIN**

### 02207300 YELLOW RIVER AT MILSTEAD, GA.

LOCATION.--Lat 33°41'23", long 83°59'49", Rockdale County, Hydrologic Unit 03070103, at bridge on State Highway 20 at Milatead, 2.2 mi northeast of Conyers.

DRAINAGE AREA.—236 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.—July 1974 to current year.

REVISED RECORDS.—WDR GA-84-1: Drainage Area.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

### WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	PH WATER WHOLE LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
ОСТ										
03 NOV	0810	130	150	146	7.3	7.3	19.0	20.5	8.0	88
07 DEC	1715	150	152	159	7.6	7.3	10.0	15.5	9.1	82
05 JAN	0830	410	90	88	7.4	7.0	9.0	5.5	10.2	89
09 FEB	0805	310	112	113	7.5	7.2	9.0	11.0	12.8	114
06 MAR	0800	240	133	132	7.5	7.1	9.0	8.0	11.2	100
05 APR	0805	330	110	108	-	7.1	15.0	15.0	10.0	101
09 MAY	0700	280	120	114	7.3	7.3	14.0	10.5	11.0	109
07 JUN	0705	180	155	146	7.6	7.3	16.0	8.5	8.0	83
04 JUL	0700	1400	75	68	7.5	6.8	20.0	21.5	7.5	85
09 AUG	0640	200	128	110	7.4	7.1	25.0	22.5	5.8	72
06 SEP	0650	100	145	149	7.6	7.2	24.0	24.0	5.9	72
03	0645	180	129	129	7.2	7.2	23.0	21.5	7.3	87

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
ОСТ								
03 NOV	6.0	0.9	490	36	1.40	0.030	<0.030	3.3
07 DEC	10	8.0	170	41	1.41	0.070	0.120	2.4
05 JAN	40	1.6	2800	22	0.560	<0.030	0.100	5.3
09 FEB	13	0.2	110	33	1.28	0.040	0.100	3.6
06 MAR	10	1.5	560	34	1.22	0.170	0.030	3.1
05 APR	15	0.8	170	27	1.14	0.030	<0.020	3.0
09 MAY	8.0	0.5	80	29	0.480	<0.030	0.080	2.6
07 JUN	8.0	0.4	-	41	1.42	0.050	0.060	3.2
04 JUL	330	3.4	22000	18	0.620	0.080	0.090	11
09 AUG	14	0.5	330	28	0.890	0.050	0.110	3.0
06 SEP	10	0.3	170	37	1.27	0.060	0.160	3.0
03	11	0.2	170	34	1.13	0.050	0.020	3.0

# ENDANGERED AND THREATENED SPECIES OF THE

### SOUTHEASTERN UNITED STATES

(THE RED BOOK)

Introduction Section, Volume 1

Prepared by:

U.S. Fish and Wildlife Service Southeast Region Atlanta, Georgia

January 1992

Availability Unlimited
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Stock Order Number: 924-0()3-00000-6

### Federally Listed Species by State

### GEORGIA

(E=Endangered; T=Threatened; CH=Critical Habitat determined)

Mammals	General Distribution
Bat, gray (Myotis grisescens) - E Bat, Indiana (Myptis sodalis) - E Manatee, West Indian (Trichechus manatus) - E Panther, Florida (Felis concolor coryi) - E Whale, finback (Balaenoptera physalus) - E Whale, humpback (Megaptera novaeangliae) - E Whale, right (Eubalaena glacialis) - E Whale, sei (Balaenoptera borealis) - E Whale, sperm (Physeter catodon) - E	Northwest, West Extreme Northwest Coastal waters Entire State Coastal waters Coastal waters Coastal waters Coastal waters Coastal waters Coastal waters
<u>Birds</u>	
Eagle, bald (Haliaeetus leucocephalus) - E Falcon, American peregrine (Falco peregrinus anatum) - E Falcon, Arctic peregrine (Falco peregrinus tundrius) - T Plover, piping (Charadrius melodus) - T Stork, wood (Mycteria americana) - E Warbler, Bachman's (Vermivora bachmanii) - E Warbler, Kirtland's (Dendroica kirtlandii) - E Woodpecker, ivory-billed (Campephilus principalis) - E Woodpecker, red-cockaded	Entire State  North  Coast, Northwest Coast Southeastern swamps Entire State Coast  South, Southwest
( <u>Picoides</u> [= <u>Dendrocopos</u> ] <u>borealis</u> ) - E	Entire State
Reptiles	
Alligator, American (Alligator mississippiensis) - T(S/A)* Snake, eastern indigo (Drymarchon corais couperi) - T	Coastal plain Southeast
(DITHELCHON COLOTS CORDELL) - 1	200 rue 42 r

<sup>\*</sup>Alligators are biologically neither endangered nor threatened. For law enforcement purposes they are classified as "Threatened due to Similarity of Appearance." Alligator hunting is regulated in accordance with State law.

State Lists 3/17/93 GEORGIA (Cont'd) General Distribution Turtle, Kemp's (Atlantic) ridley (Lepidochelys kempii) - E Coastal waters Turtle, green (Chelonia mydas) - T Coastal waters Turtle, hawksbill (Eretmochelys imbricata) - E Coastal waters Turtle, leatherback (Dermochelys coriacea) - E Coastal waters Turtle, loggerhead (<u>Caretta</u> <u>caretta</u>) - T Coastal waters Fishes Darter, amber (Percina antesella) - E,CH Conasauga R., Murray County Darter, goldline (Percina aurolineata - T Upper Coosa River System Darter, snail (Percina tanasi) - T S. Chickamauga Cr., Catoosa County Logperch, Conasauga (Percina jenkinsi) - E,CH Conasauga R., Murray County Shiner, blue (Cyprinella caerulea) - T Conasauga and Coosawattee Rivers, Holly, Rock, Perry, and Turniptown Creeks Sturgeon, shortnose (Acipenser brevirostrum) - E Coastal rivers <u>Mollusks</u> Acornshell, southern (Epioblasma othcaloogensis) - E Coosa River drainage Clubshell, southern (Pleurobema decisum) - E Coosa River and tributaries Combshell, upland (Epioblasma metastriata) - E Conasauga River Kidneyshell, triangular (Ptychobranchus <u>greeni</u>) - E Coosa drainage of the Conasauga River Moccasinshell, Alabama (<u>Medionidus</u> acutissimus) - T Conasauga River Moccasinshell, Coosa (Medionidus parvulus) - E Chatooga River; Conasauga River Pocketbook, fine-lined (Lampilis altilis) - T Conasauga River Pigtoe, southern (Pleurobema georgianum) - E Upper Conasauga River

State Lists 3/17/93

### GEORGIA (Cont'd)

### General Distribution

### **Plants**

<u>Amphianthus pusillus</u> (little amphianthus) - T Piedmont Region (17 Counties)

Baptisia arachnifera (hairy rattleweed) - E Wayne, Brantley
Counties

Echinacea laevigata (smooth coneflower) - E Stephens County

<u>Isoetes melanospora</u> (black-spored quillwort) - E

Helonias bullata (Swamp pink) - T

<u>Isoetes</u> <u>tegetiformans</u> (mat-forming quillwort) - E

<u>Isotria medeoloides</u> (small whorled pogonia) - E
<u>Lindera melissifolia</u> (pondberry) - E
<u>Marshallia mohrii</u> (Mohr's
Barbara's-buttons) - T

Oxypolis Canbyi (Canby's dropwort) - E

<u>Ptilimnium nodosum</u> (harperella) - E <u>Rhus michauxii</u> (Michaux's sumac) - E

<u>Sagittaria</u> <u>secundifolia</u> (Kral's waterplantain) - T <u>Silena</u> <u>polypetala</u> (fringed campion) - E

<u>Sarracenia oreophila</u> (green pitcher plant) - E <u>Scutellaria montana</u> (large-flowered skullcap) - E

<u>Schwalbea americana</u> (American chaffseed) - E <u>Spiraea virginiana</u> (Virginia spiraea) - T <u>Torreya taxifolia</u> (Florida torreya) - E <u>Trillium persistens</u> (persistent trillium) - E

Trillium reliquum (relict trillium) - E

<u>Xyris Tennesseensis</u> (Tennessee yellow-eyed grass) - E

Union County

Dekalb, Rockdale, Gwinnett Counties

Columbia, Hancock, Greene, Putnam Counties

Rabun County Wheeler County

Floyd County

Burke, Lee, Sumter Counties Greene County Elbert, Columbia, Gwinnett, Muscogee, Newton, Rabun, Counties

Chattooga County Bibb, Crawford, Taylor, Talbot Counties Towns County

Floyd, Gordon, Walker
Counties
Baker, Dougherty Counties
Walker, Dade Counties
Decatur County
Tallulah-Tugaloo River
system, Rabun and Habersham
Counties
Clay, Columbia, Early,
Talbot, Lee Counties

Bartow County

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SPECTRUM PRINTING

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S 6	0	0	0	0	0	267	267
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Population for 1/2-mile ring redistributed to 1/4-mile:

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 $A_5 = \pi (.5)^2 = 0.785$ 

$$\frac{0.19625}{6.785} = 0.25$$

### SITE INSPECTION WORKSHEETS

CERCLIS IDENTIFICATION NUMBER

GAD 982///767

	SITE LOCATION										
	SITE NAME: LEGAL, COMMON, OR DESCRIPTIVE NAME OF SITE										
Spectrum Printing											
	STREET ADDRESS, ROUTE, OR SPECIFIC LOCATION IDENTIFIER										
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CONFIDENCE

### GENERAL INFORMATION (continued)

Site Sketch: Provide a sketch of the site. Indicate all pertinent features of the site and nearby environments including sources of wastes, areas of visible and buried wastes, buildings, residences, access roads, parking areas, fences, fields, drainage patterns, water bodies, vegetation, wells, sensitive environments, and other features.

See "Ivesigation Report" (Weston; 9/17/87)

p. 4.

### HAZARDOUS WASTE QUANTITY (HWQ) CALCULATION

For each migration pathway, evaluate HWQ associated with sources that are available (i.e., incompletely contained) to migrate to that pathway. (Note: If Actual Contamination Targets exist for ground water, surface water, or air migration pathways, assign the calculated HWQ score or 100, whichever is greater, as the HWQ score for that pathway.) For each source, evaluate HWQ for one or more of the four tiers (SI Table 1; HRS Table 2-5) for which data exist: constituent quantity, wastestream quantity, source volume, and source area. Select the tier that gives the highest value as the source HWQ. Select the source volume HWQ rather than source area HWQ if data for both tiers are available.

Column 1 of SI Table 1 indicates the quantity tier. Column 2 lists source types for the four tiers. Columns 3, 4, 5, and 6 provide ranges of waste amount for sites with only one source, corresponding to HWQ scores at the tops of the columns. Column 7 provides formulas to obtain source waste quantity values at sites with multiple sources.

- 1. Identify each source type.
- 2. Examine all waste quantity data available for each source. Record constituent quantity and waste stream mass or volume. Record dimensions of each source.
- Convert source measurements to appropriate units for each tier to be evaluated.
- 4. For each source, use the formulas in the last column of SI Table 1 to determine the waste quantity value for each tier that can be evaluated. Use the waste quantity value obtained from the highest tier as the quantity value for the source.
- Sum the values assigned to each source to determine the total site waste quantity.
- 6. Assign HWQ score from SI Table 2 (HRS Table 2-6).

Note these exceptions to evaluate soil exposure pathway HWQ (see HRS Table 5-2):

- The divisor for the area (square feet) of a landfill is 34,000.
- The divisor for the area (square feet) of a pile is 34.
- Wet surface impoundments and tanks and non-drum containers are the only sources for which volume measurements are evaluated for the soil exposure pathway.

SI TABLE 2: HWQ	SCORES FOR SITES						
Site WQ Total	. HWQ Score						
0	0						
1 <sup>a</sup> to 100	1 <sup>b</sup>						
> 100 to 10,000	100						
> 10,000 to 1 million	10,000						
> 1 million	1,000,000						

a If the WO total is between 0 and 1, round it to 1.

b If the hazardous constituent quantity data are not complete, assign the score of 10.

### GENERAL INFORMATION (continued)

Source Description: Include description of containment per pathway for ground water (see HRS Table 3-2), surface water (see HRS Table 4-2), and air (see HRS Tables 6-3 and 6-9).	7
Aprox. 275 dams of printing inks and ink westes	
Analyses of Samples from drums contained lead,	
chromium, copper, zinc, cuanide, methylene chioride, benzene	,
toluene, xylenes. Another possible source was a 1000-gal	
Storage tank but available file material does not indicate	]
what was stored in the tank and gives no evidence that	
the tank had leaked. The drums and strange tank have	been (
Hazardous Waste Quantity (HWQ) Calculation: SI Tables 1 and 2 (See HRS Tables 2-5; 2-6, and 5-2).	Therefore;
275 drums = = 1000 drums	the only
	source of
HWQ = 10 Source = Cont. Soil	would be
	containing
1.5 acre property = Hwa -10	followup
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Either way, HWQ = 10	conducted
	after the removal.
	removal.

Attach additional pages, if necessary

HWQ =

10

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			GW Mobility (HRS Table 3-8)	Mobility Value (HRS Table 3-9)	Per (HRS Tables 4-10 and 4-11)	Tox/Per Value (HRS Table 4-12)	Bloac Pot (HRS Table	Bloac Value (HRS Table	Ecotox (HRS Table	Ecotox/ Pers (HRS Table	Pers/ Bioacc Valua (HRS Table	Mob/ Pers Value (HRS Table	Pers/ Bloacc Value (HRS Table	Mob/ Pers Value (HRS	Mob/ Per/ Bloacc Value (HRS	Toxicity mobility
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## Copied from Newton County LF SIP

### Sources and Waste Characteristics

The only source identified at the site is the 85-acre landfill. In addition to municipal waste, the landfill is known to have received 28 drums of soil contaminated with PCBs, 3,600 gallons of waste lubricating oil, 1,200 tons of waste polypropylene flakes and an unknown amount of floor sweepings containing various metallic pigments (Refs. 5, p. 2; 12). The wastes were placed in trenches at the landfill, and there is no documentation of a liner. The landfill was covered with soil and seeded with grass, and no trash was visible during a 1989 site reconnaissance which NUS conducted as part of the Preliminary Reassessment (Ref. 3, p. 5).

### Groundwater Migration Pathway

The Newton County Landfill is located in the Piedmont physiographic province of Georgia. The topography of the Piedmont physiographic province is characterized by low, rolling hills with valleys 50 to 300 feet deep (Ref. 13, p. 88). Elevations within a 4-mile radius of the site range from approximately 530 to 820 feet above msl. The elevation of the site ranges from 680 to 760 feet above msl (Ref. 1).

The landfill is underlain by a mantle of clay-rich, unconsolidated soil that is primarily derived from insitu chemical weathering of the underlying metamorphic bedrock (Ref. 14, p. 252). Collectively, this unconsolidated material, which consists of saprolite, soil and alluvium, is referred to as regolith. The average thickness of regolith in the Piedmont is typically 30 to 60 feet (Ref. 14, p. 252). Bedrock underlying the regolith in the vicinity of the site consists of metamorphic rocks. These rocks are primarily mica schists and biotite gneisses (Ref. 15, Plate 1 East, p. 88). The metamorphic rocks are fractured and displaced by numerous faults and zones of deformation (Ref. 16, pp. 14-15). In addition, some diabase dikes were intruded along fractures (Ref. 15, p. 55). There are no carbonate rocks and no karstic landforms within 4 miles of the site (Ref. 15, Plate 1 East, p. 88; 1). As a result, there is no evidence of karstic groundwater flow conditions in the vicinity of the landfill.

Groundwater beneath the site occurs in intergranular pore spaces in the regolith and in joints, fractures and other secondary openings in the underlying crystalline bedrock (Refs. 14, p. 252; 17, p. 10). Groundwater in the regolith is generally under water-table conditions and is primarily recharged by precipitation that falls in the area and infiltrates down to the water table (Ref. 16, pp. 7, 9). The water table in the Piedmont is typically a subdued image of the surface topography. The groundwater is held in the open spaces of

the rock materials which create an underground reservoir (Ref. 17, p. 10). Groundwater within the primary pore spaces of the regolith and within the secondary openings in the bedrock is hydraulically connected to form a single, unconfined aquifer. This aquifer is known as the crystalline bedrock aquifer. The secondary openings within the bedrock diminish in size and number with increasing depth (Ref. 16, p. 15; Ref. 17, pp. 8-10).

The depth of wells in the crystalline bedrock aquifer rarely exceeds 300 feet below land surface (bls) (Ref. 16, p. 15). Soil borings completed at the site prior to opening the landfill indicated that the water table occurred at depths between 11.3 and 19.5 feet bls (Ref. 18, pp. 1-4).

Some areas within a 4-mile radius of the site are served by the Newton County Water and Sewer Authority public water supply system. This system purchases drinking water from the city of Covington (Ref. 19). The city of Covington is located outside the 4-mile radius of the site and obtains water from two intakes: one in the Alcovy River and one in the Cornish Creek. These intakes are located 10 miles or more upstream of the site (Ref. 20). Rural residents within a 4-mile radius of the site who are not served by either water system obtain drinking water from private wells (Ref. 19). Approximately 755 residences in the 4-mile radius are not served by municipal water (Ref. 1). Multiplying the number of houses determined from a house count using topographic maps by the 1990 U.S. Bureau of the Census county conversion factor of 2.85 persons per household for Newton County, Georgia, the groundwater target population within 4 miles of the site is estimated as follows: 0 - 0.25 mile (37); 0.25 - 0.50 mile (20); 0.50 - 1 mile (80); 1 - 2 miles (325); 2 - 3 miles (681); 3 - 4 miles (1,009) (Ref. 21, p. 1).

### Surface Water Migration Pathway

Runoff from the landfill is directed to one of two intermittent creeks: one which is located along the eastern side of the site and one which begins below a small pond south of the southwest corner of the site. These creeks converge, then flow southeast to an unnamed perennial creek which discharges to the Alcovy River approximately 1 mile downstream from the probable point of entry. The distance from the source to the probable point of entry in the perennial creek is approximately 2,000 feet. The Alcovy River enters Jackson Lake approximately 5 miles south of the probable point of entry (Ref. 1). The nearest gauging station is on the Alcovy River approximately 12 miles upstream of the site, north of Covington. The flow rate of the Alcovy River at this location is approximately 243 cubic feet per second (cfs) (Ref. 22). The flow rate of the unnamed creek

is not known, but is estimated to be in the range of 10 to 100 cfs based on its appearance on the topographic map (Ref 1).

No surface water intakes are located on the Alcovy River or Jackson Lake within the 15-mile target distance limit downstream of the probable point of entry, but the Alcovy River is used for recreational fishing (Ref. 23). There are no mapped wetland areas located downstream from the PPE (Ref. 1).

The topography of the site is gently sloping with a gradient of approximately 2 percent. The soils at the site are primarily sandy silt; drainage characteristics are not known (Ref. 18, pp. 1-4). No Soil Conservation Service soil type maps are available for Newton County, Georgia. The landfill is located in an area of minimal flooding (Ref. 25).

### Air Migration and Soil Exposure Pathways

Selected demographic information presented below was collected to evaluate the air migration and soil exposure pathways. Possible impacts of airborne contamination were assessed using the residential population, workers, schools and sensitive environments within 4 miles of the facility. Similarly, potential effects of exposure to surficial contamination at the facility were evaluated using accessibility of the facility and human and environmental populations onsite and within a 1-mile travel distance.

There are approximately 1,220 residences in the 4-mile radius (Ref. 1). Multiplying the number of houses determined from a house count using topographic maps by the U.S. Bureau of the Census county conversion factor of 2.85 persons per household for Newton County, Georgia, the population within 4 miles of the Newton County Landfill site is estimated as follows: 0 - 0.25 mile (80); 0.25 - 0.50 mile (28); 0.50 - 1 mile (208); 1 - 2 miles (718); 2 - 3 miles (1,188); 3 - 4 miles (1,254). Sensitive environments within 4 miles of the site include a total of approximately 70 acres of mapped wetlands; no critical habitats or specific occurrences of threatened or endangered species are documented in the vicinity of the site (Refs. 1; 24, pp. 1-3).

There are no onsite residents or workers associated with the inactive site. The nearest residence is located approximately 300 feet north of the site (Refs. 1; 3, p. 6). Numerous churches are located within 4 miles of the site, and the nearest school is located approximately 1.8 miles south of the site (Ref. 1).

### References

- U.S. Geological Survey 7.5 minute series Topographic Quadrangle Maps of Georgia: Covington 1964 (Photorevised [PR] 1985), Jackson 1964 (PR 1985), Lloyd Shoals Dam 1964 (PR 1985), Porterdale 1964 (PR 1985), Stewart 1964 (PR 1985), Worthville 1964 (PR 1985), scale 1:24,000.
- James W. Dunbar, Program Manager, Georgia Department of Natural Resources, Environmental Protection Division, Municipal Solid Waste Control Program, letter to Brian Allen, Executive Assistant, Newton County Board of Commissioners, August 28, 1985. Subject: Newton County-Lackey Road, Phase 2, Sanitary Landfill.
- 3. NUS Corporation Field Logbook No. F4-1180 for Newton County Landfill, TDD No. F4-8812-10. Documentation facility reconnaissance, January 4, 1989.
- 4. Janet G. Martin, Project Manager, NUS Corporation, letter to A.R. Hanke, Site Investigation and Support Branch, Waste Management Division, Environmental Protection Agency, March 10, 1989. Subject: Preliminary Reassessment, Newton County Landfill, Covington, Newton County, Georgia.
- 5. Potential Hazardous Waste Site Identification and Preliminary Assessment (EPA Form T2070-2) for Newton County Landfill Covington, Georgia, prepared by Jennifer Kaduck, December 11, 1979.
- 6. U.S. Department of Commerce, <u>Climatic Atlas of the United States</u> (Washington, D.C.: GPO, June 1968) Reprint: 1983, National Oceanic and Atmospheric Administration, excerpt, 4 pages.
- 7. U.S. Department of Commerce, <u>Rainfall Frequency Atlas of the United States</u>, Technical Paper No. 40 (Washington, D.C.: GPO, 1961), excerpt, 3 pages.
- 8. Denny Jackson, EPD Solid Waste Management, telephone conversation with Janet Martin, NUS Corporation, February 28, 1989. Subject: Permitting and inspection dates at Newton County Landfill site.
- 9. James Dunbar, EPD Solid Waste Management, telephone conversation with Janet Martin, NUS Corporation, January 9, 1989. Subject: Closure date at Newton County Landfill site.
- Potential Hazardous Waste Site Final Strategy Determination (EPA Form No. T2070-5) for Newton County Landfill; prepared by James Dunbar, March 9, 1982.
- 11. Report of Trip to Newton County Landfill on March 14, 1985 filed by Barbara Ross, Environmental Engineer, Permit Review Unit, Georgia Department of Natural Resources, Environmental Protection Division, March 18, 1985.
- 12. Howard Barefoot, Unit Coordinator, Industrial and Hazardous Waste Management Program, Georgia Department of Natural Resources, Environmental Protection Division, letter to Frank Turner, City Manager, City of Covington, October 9, 1985. Subject: Disposal of soil from Williams Street substation, City of Covington.
- 13. William D. Thornbury, <u>Regional Geomorphology of the United States</u>, (New York: John Wiley and Sons, 1965), excerpt, 3 pages.
- 14. Linda Aller, et al., <u>DRASTIC:</u> A <u>Standardized System for Evaluating Groundwater Pollution Potential Using Hydrogeologic Settings</u>, EPA-600/2-87-035 (Ada, Oklahoma: EPA, April 1987), excerpt, 2 pages.

- 15. Keith I. McConnell and Charlotte E. Abrams, Geology of the Greater Atlanta Region, Bulletin 96 (Atlanta, Georgia: Georgia Geologic Survey, 1984), excerpt, 8 pages with attachment.
- 16. C.W. Cressler, C.J. Thurmond and W.G. Hester, <u>Groundwater in the Greater Atlanta Region</u>, Information Circular 63 (Atlanta, Georgia: Georgia Geologic Survey, 1983), excerpt, 13 pages.
- 17. Dean B. Radtke, et al., Occurrence and Availability of Groundwater in the Athens Region, Northeastern Georgia, Water Resources Investigations Report 86-4075 Doraville, Georgia: U.S. Geological Survey (1986), excerpt, 7 pages with attachment.
- 18. Georgia Department of Transportation, Soils Engineering and Geology Branch, Sanitary Landfill Investigation for Newton County Landfill, June 7, 1977; obtained from EPA file.
- 19. Grady Ridgeway, Executive Director, Newton County Water and Sewerage Authority, telephone conversation with Deborah Hall, Dynamac Corporation, March 3, 1993. Subject: Drinking water source for Newton County.
- 20. Walter Thompson, Laboratory Supervisor, City of Covington Water Department, telephone conversation with Deborah Hall, Dynamac Corporation, March 3, 1993. Subject: Drinking water source for the City of Covington and Newton County.
- 21. U.S. Department of Commerce, Proof Copy of table generated for 1990 CPH-1: Summary of Population and Housing Characteristics, issued by Bureau of the Census (April 1991), excerpt, 2 pages.
- 22. W.R. Stokes II, R.D. McFarlane and G.R. Buell, <u>Water Resources Data, Georgia, Water Year 1991</u>, Water-Data Report GA-91-1 (Atlanta, Georgia: U.S. Geological Survey, 1992), excerpt, 3 pages.
- 23. John Biagi, Fisheries Biologist, Georgia Department of Natural Resources, Game and Fish Division, telephone conversation with Deborah Hall, Dynamac Corporation, March 3, 1993. Subject: Alcovy River.
- 24. U.S. Fish and Wildlife Service, <u>Endangered and Threatened Species of the Southeast United States</u> (Atlanta, Georgia: 1992), excerpt, 5 pages.
- 25. Federal Emergency Management Agency, Flood Insurance Rate Map and Flood Boundary and Floodway Map, Newton County, Georgia, Panel 85 of 150, July 5, 1983.

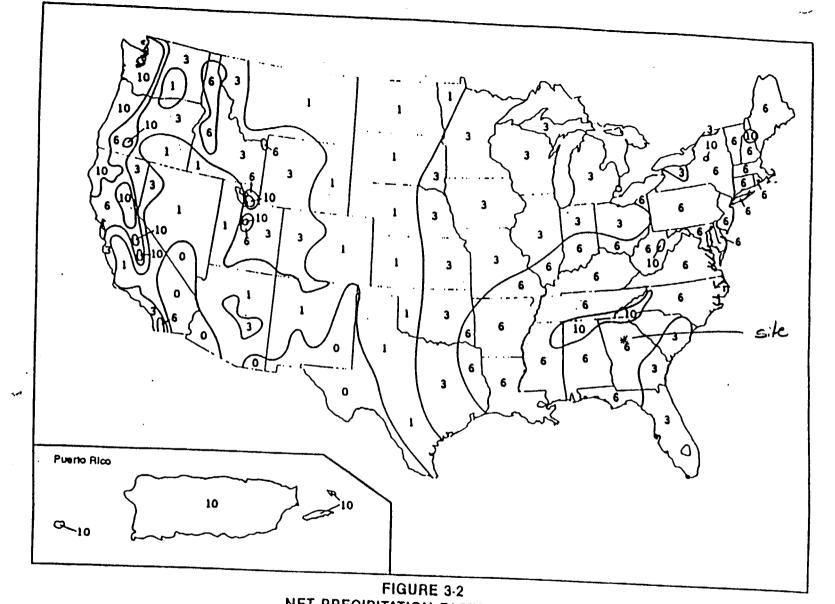
### GROUND WATER PATHWAY WORKSHEET

		vala		
LIKELIHOOD OF RELEASE	Score	Type	Refs	
OBSERVED RELEASE: If sampling data or direct observation	T	<u> </u>		7
1. Observed Allerase. It sampling data of direct observation	i	1	1	1
support a release to the aquiler, assign a score of 550. Record		- 1	1	1
observed release substances on SI Table 4.				1
2. POTENTIAL TO RELEASE: Depth to aquiler:leet. If	1	1		1
sampling data do not support a release to the aquiter, and the site is	: 1	1	1	1.
in karst terrain or the depth to aquifer is 70 feet or less, assign a	ŀ	- 1	J.	ł
score of 500; otherwise, assign a score of 340. Optionally,	j	1	l	1 1
	ł	1	1	1 1.3
evaluate potential to release according to HRS Section 3.		-{	<u> </u>	action
LR =	340		حص عفد	
			bard	
TARGETS			4 -	الما
	<del></del>	T		I
Are any wells part of a blended system? YesNo		1		<b>[</b>
If yes, attach a page to show apportionment calculations.		1 .		,
1		1 1		
3. ACTUAL CONTAMINATION TARGETS: If analytical evidence		i		
indicates that any target drinking water well for the aquiter has been		1 1		
exposed to a hazardous substance from the site, evaluate the		1 1	'	
		1 1		
factor score for the number of people served (SI Table 5).		1 , 1		1. 1.6.
		No	samp	le data
Level I: people x 10 =		1 1	_ , !	
Level II: people x 1 = Total =		1 1		
		1 1	i	
A DOTENTIAL CONTANINATION TARCETTS Described the gumber		11		
4. POTENTIAL CONTAMINATION TARGETS: Determine the number		1 1	1.00	
of people served by drinking water wells for the aquifer or overlying	1.1	1 1	4000	
aquifers that are not exposed to a hazardous substance from the	4.4	1 1	CPH-	/
site; record the population for each distance category in SI Table 6a	•	1	4"-	•
or 6b. Sum the population values and multiply by 0.1.		1 1	ĺ	
5. NEAREST WELL: Assign a score of 50 for any Level I Actual		1		
		اما		<b>.</b> (
Contamination Targets for the aquifer or overlying aquifer. Assign a	_	$\alpha$	er m	2-
score of 45 if there are Level II targets but no Level I targets. If no	5	1 1	4000	
Actual Contamination Targets exist, assign the Nearest Well score		1 1	1000	
from SI Table 6a or 6b. If no drinking water wells exist within 4 miles,		1	1	
assign 0.		1	}	
6. WELLHEAD PROTECTION AREA (WHPA): If any source lies :				
		[ ]		1 1
within or above a WHPA for the aquifer, or if a ground water	. 🔨	1 1/2 1	1500	untobe Hin Hes
observed release has occurred within a WHPA, assign a score of	O	/ Von	ا ۱۸۱۸	~,,,,,,,,
20; assign 5 if neither condition applies but a WHPA is within 4		locate	d W	HING 41
miles: otherwise assign 0.				miles
7. RESOURCES: Assign a score of 5 if one or more ground water				
resource applies; assign 0 if none applies.		1	ĺ	
resource applies, assign of frome applies.			1	
Irrigation (5 acre minimum) of commercial food crops or		1	- 1	
commercial forage crops	•	, <u>1</u>		1
Watering of commercial livestock	اسيم		Lump	トかし
Ingredient in commercial food preparation	シ	ノフチ		=
Supply for commercial aquaculture		i 1	1	
		I	}	
<ul> <li>Supply for a major or designated water recreation area,</li> </ul>			ł	
excluding drinking water use	ļ		ľ	
Sum of Targets T=	14.4 =	14		
		لسئش		

## TABLE 3-1 GROUND WATER MIGRATION PATHWAY SCORESHEET

#### Factor Categories and Factors

_	Likelihood of Release to an Aquifer	Maximum Value	Value Assigned
1	. Observed Release	550	0
2			
~	2a. Concainment	10	10_
	2b. Net Precipitation	10	3 3 3 3 3 3 3
	2c. Depth to Aquifer	5	3
	2d. Travel Time	35	25
	2e. Potential to Release		
	[lines 2a x (2b + 2c + 2d)]	500	340
-		500	
3.	· · · · · · · · · · · · · · · · · · ·	550	340
	lines 1 and 2e)	JJ0	
•	Waste Characteristics		
4.	Toxicity/Mobility	a	
5.		a	
6.	Waste Characteristics	100	
	Targets		
7.	Nearest Well	<b>/</b> 50	
	Population	/ **	
٥.	8a. Level I Concentrations	/ ь	
	8b. Level II Concentrations	, в .	
			<del></del>
	8c. Potential Contamination	b L	
•	8d. Population (lines 8a + 8b + 8c)	Ъ.	
9.	Resources	5 .	<del></del>
10.	Wellhead Protection Area	20	
11.	Targets (lines 7 + 8d + 9 + 10)	Ъ	
	Ground Water Migration Score for an Aquite	<u> </u>	
••			
12.	Aquifer Score		
	[(lines 3 x 6 x 11)/82,500] <sup>c</sup>	100	<del></del>
	Ground Water Migration Pathway Score		
13.	Pathway Score (Sgw), (highest value from line 12 for all aquifers evaluated)	100	_
Maxi	my value applies to waste characteristics	category.	
Maxi	fium value not applicable.		\
CD9/n	ot round to nearest integer.		



NET PRECIPITATION FACTOR VALUES

## TABLE 3-5 DEPTH TO AQUIFER FACTOR VALUES

Depth To Aquifer <sup>a</sup> (feet)	Assigned Value	
Less than or equal to 25	5	a w.l
Greater than 25 to 250	3	sup C-14H
Greater than 250	1	

<sup>&</sup>lt;sup>a</sup>Use depth of all layers between the hazardous substances and aquifer. Assign a thickness of 0 feet to any karst aquifer that underlies any portion of the sources at the site.

### TABLE 3-6 HYDRAULIC CONDUCTIVITY OF GEOLOGIC MATERIALS

Type of Macerial	Assigned Hydraulic Conductivity <sup>a</sup> (cm/sec)	
Clay; low permeability till (compact unfractured till); shale; unfractured meramorphic and igneous rocks	10-8	
Silt; loesses; silty clays; sediments that are predominantly silts; moderately permeable till (fine-grained, unconsolidated till, or compact till with some fractures); low permeability limestones and dolomites (no karst); low permeability sandstone; low permeability fractured igneous and metamorphic rocks  Sands; sandy silts; sediments that are predominantly sand; highly permeable till (coarse-grained, unconsolidated or compact and highly fractured); peat; moderately permeable limestones and dolomites	Sam assur atters writer	ned (see hed geo.
(no karst); moderately permeable sandstone; moderately permeable fractured igneous and metamorphic ocks		٠.
ravel; clean sand; highly permeable ractured igneous and metamorphic ocks; permeable basalt; karst imestones and dolomites	10-2	

<sup>&</sup>lt;sup>a</sup>Do not round to nearest integer.

TABLE 3-7
TRAVEL TIME FACTOR VALUES<sup>4</sup>

	Thickness of Lowest Hydraulic Conductivity Layer(s) (feet)						
Hydraulic Conductivity (cm/sec)	Greater than 3 to 5	Greater than 5 to 100	Greater than 100 to 500	Greater than 500			
Greater than or equal to 10 <sup>-3</sup>	35	35	35	25			
Less than 10 <sup>-3</sup> to 10 <sup>-5</sup>	35	25)	15	15			
Less than 10 <sup>-5</sup> to 10 <sup>-7</sup>	15	15	5	5			
Less than 10 <sup>-7</sup>	5	5	1	. 1			

<sup>\*</sup>If depth to aquifer is 10 feet or less or if, for the interval being evaluated, all layers that underlie a portion of the sources at the site are karst, assign a value of 35. bConsider only layers at least 3 feet thick. Do not consider layers or portions of layers within the first 10 feet of the depth to the aquifer.

See Pager Collsd Colls attached

SI TABLE 6 (From HRS TABLE 3-12): VALUES FOR POTENTIAL CONTAMINATION GROUND WATER TARGET POPULATIONS (continued)

SI Table 6b: Karst Aquifers

			Nearest		1			Populat	ion Serve	d by Wel	ls within Di	stance Cat	egory				
	Distance from Site	Рор.	Well (choose highest)	1 10 10	11 lo 30	31 to 100	101 lo 300	301 to 1000	1001 to 3000	3001 10 10,000	10,001 lo 30,000	30,001 lo 100,000	100,001 to 300,000	300,001 to 1,000,000	1,000,000	Рор.	
L	0 to $\frac{1}{4}$ mile		20	4 .	17	<b>53</b> <sub>.</sub>	164	522	1,633	5,214	16,325	52,137	163,248	521,360	3,000,000 1,632,455	Value	Rel.
	$> \frac{1}{4}$ to $\frac{1}{2}$ mile		20	2	11	33	102	324	1,013	3,233	10,122	32,325	101,213	323,243	1,012,122		
	$> \frac{1}{2}$ to 1 mile		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		
	> 1 to 2 miles		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		
	> 2 to 3 miles		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		
	>3 to 4 miles		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		-
	Nearest 1	Well =				•	<del>*</del>	<del></del>	•	· · · · · · · · · · · · · · · · · · ·	I		,		Sum =		

#### SURFACE WATER PATHWAY

Sketch of the Surface Water Migration Route: Label all surface water bodies. Include runoff route and drainage direction, probable point of entry, and 15-mile target distance limit. Mark sample locations, intakes, fisheries, and sensitive environments. Indicate flow directions, tidal influence, and rate. According to the Site I spection Form, runoff from the facility would either enter storm drains or flowinto Dried Indian Creek. To present a worst-case "scenero, it was assumed that runoff would flow overland and enter the nevert perennial surface water bodies, both of which ultimately flow into the Yellow River. In both cases, however, runoff would have to flow more than 0.25 mile through an urban area to reach perennial surface water, which seems highly unlikely. Therefore, the actual viability of this. pathury is considered very low. SPECTRUM RINTING YELLOW DRIED Yellow Riveris a known /NOIAN fishery; all other water bodies along CREEK worst-case

#### SURFACE WATER PATHWAY

#### Surface Water Observed Release Substances Summary Table

On SI Table 7, list the hazardous substances detected in surface water samples for the watershed, which can be attributed to the site. Include only those substances in observed releases (direct observation) or with concentration levels significantly above background levels. Obtain toxicity, persistence, bioaccumulation potential, and ecotoxicity values from SCDM. Enter the highest toxicity/persistence, toxicity/persistence/bioaccumulation, and ecotoxicity/persistence/ecobioaccumulation values in the spaces provided.

- TP = Toxicity x Persistence
- TPB = TP x bioaccumulation
- ETPB = EP x bioaccumulation (EP = ecotoxicity x persistence)

#### Drinking Water Actual Contamination Targets Summary Table

For an observed release at or beyond a drinking water intake, on SI Table 8 enter each hazardous substance by sample ID and the detected concentration. For surface water sediment samples detecting a hazardous substance at or beyond an intake, evaluate the intake as Level II contamination. Obtain benchmark, cancer risk, and reference dose concentrations for each substance from SCDM. For MCL and MCLG benchmarks, determine the highest percentage of benchmark obtained for any substance. For cancer risk and reference dose, sum the percentages of the substances listed. If benchmark, cancer risk, or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage or the percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate the population served by the intake as a Level I target. If the percentages are less than 100% or all are N/A, evaluate the population served by the intake as a Level II target.

# SURFACE WATER PATHWAY LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT WORKSHEET

IKELIHOOD OF RELEASE-		Data		
VERLAND/FLOOD MIGRATION	Score	Type	Refs	7
	1	1	j	
			]	ł
		<del></del>	<del>                                     </del>	ł
			1	l `
			1	ļ
watershed, use the table below to assign a score from the table		1	ł	i
below based on distance to surface water and flood frequency.				
Distance to surface water <2500 feet 500		1		
Distance to surface water >2500 feet, and:				
Site in annual or 10-yr floodplain 500				
Site in 100-yr floodplain 400				
		1		
	•			
Optionally, evaluate surface water potential to release				
		544	~ /	23A
LR =	170	ا حدد	- س	
		4		
FILHOOD OF RELEASE		Data		
	Score	Type	Refs	
OBSERVED RELEASE: If sampling data or direct observation			1	
support a release to surface water in the watershed, assign a score	•		1	
of 550. Record observed release substances on SI Table 7.			İ	
FE: Evaluate ground water to surface water migration only for a			1	
surface water body that meets all of the following conditions:				
			1	4
	. /	/	. 1	1
No aquifer discontinuity is established between the source and the	N/a	t sk	wear	C
	, -			
above portion of the surface water body.				
The top of the uppermost aquifer is at or above the bottom of the				
The top of the uppermost aquifer is at or above the bottom of the surface water.				<del></del>
The top of the uppermost aquifer is at or above the bottom of the surface water.  ation of top of uppermost aquifer				
The top of the uppermost aquifer is at or above the bottom of the surface water.				
The top of the uppermost aquifer is at or above the bottom of the surface water. ation of top of uppermost aquifer ation of bottom of surface water body				
The top of the uppermost aquifer is at or above the bottom of the surface water. ation of top of uppermost aquifer ation of bottom of surface water body  POTENTIAL TO RELEASE: Use the ground water potential to				
The top of the uppermost aquifer is at or above the bottom of the surface water.  ation of top of uppermost aquifer ation of bottom of surface water body  POTENTIAL TO RELEASE: Use the ground water potential to elease. Optionally, evaluate surface water potential to release				
The top of the uppermost aquifer is at or above the bottom of the surface water. ation of top of uppermost aquifer ation of bottom of surface water body  POTENTIAL TO RELEASE: Use the ground water potential to				
The top of the uppermost aquifer is at or above the bottom of the surface water.  ation of top of uppermost aquifer ation of bottom of surface water body  POTENTIAL TO RELEASE: Use the ground water potential to elease. Optionally, evaluate surface water potential to release				
	OBSERVED RELEASE: If sampling data or direct observation support a release to surface water in the watershed, assign a score of 550. Record observed release substances on SI Table 7.  POTENTIAL TO RELEASE: Distance to surface water:	OBSERVED RELEASE: If sampling data or direct observation support a release to surface water in the watershed, assign a score of 550. Record observed release substances on SI Table 7.  POTENTIAL TO RELEASE: Distance to surface water:(feet)   If sampling data do not support a release to surface water in the watershed, use the table below to assign a score from the table below based on distance to surface water and flood frequency.  Distance to surface water <2500 feet	OBSERVED RELEASE: If sampling data or direct observation support a release to surface water in the watershed, assign a score of 550. Record observed release substances on SI Table 7.  POTENTIAL TO RELEASE: Distance to surface water:	OBSERVED RELEASE: If sampling data or direct observation support a release to surface water in the watershed, assign a score of 550. Record observed release substances on SI Table 7.  POTENTIAL TO RELEASE: Distance to surface water:

TABLE 4-1 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET

act	or Categories and Factors	Maximum Value	Value	Assigned
RIN	KING WATER THREAT			
	Likelihood of Release			
1.	Observed Release	550	0	
2.	Potential to Release by		-	
	Overland Flow			
	2a. Containment	10	10	
	2b. Runoff	25		
	2c. Distance to Surface Water	25	9	
	2d. Potential to Release by			
	Overland Flow			•
	(lines $2a \times [2b + 2c]$ )	500	100	
	Potential to Release by Flood			
	3a. Containment (Flood)	10	10	
	3b. Flood Frequency	50	7	
	3c. Potential to Release			
	by Flood (lines 3a x 3b)	500	<u> 70</u>	
	Potential to Release			
	(lines 2d + 3c, subject to			
	a maximum of 500)	500	170	
	Likelihood of Release			
	(higher of lines 1 and 4)	550		<u> 170</u>
•	Naste Characteristics			
•				
. '	Toxicity/Rersistence	a /		
. 1	Hazardous Wasse Quantity	<u>a</u>		
. 1	Waste Characteristics	100		
		<i>/</i> .		
-	Targets			
. 1	Nearest Intake	50	<u> </u>	
. 1	Population			
	10a. Level I Concentrations	ь		
	10b. Level II Concentrations	Ь		
	LOc. Potential Contamination	76		
	lOd. Population		<del></del>	
	(lines 10a + 10b + 10c)	ь		
. ş	Sesources	5	$\overline{Z}$	
· /	<b>,</b>	-		

### TABLE 4-3 DRAINAGE AREA VALUES

Drainage Area(acres)	Assigned Value	
Less than 50	1	topo
50 to 250	2	
Greater than 250 to 1,000	3	
Greater than 1,000	4	

### TABLE 4-4 SOIL GROUP DESIGNATIONS

Surface Soil Description	Soil Group Designation
Coarse-textured soils with high infiltration rates (for example, sands, loamy sands)	A
Medium-textured soils with moderate infiltration rates (for example, sandy loams, loams)	В
Moderately fine-textured soils with low infiltration rates (for example, silty loams, silts, sandy clay loams)	<u>C</u>
Fine-textured soils with very low infiltration rates (for example, clays, sandy clays, silty clay loams, clay loams, silty clays); or impermeable surfaces (for example, pavement)	D

Seep. C.IHC - no soil survey available -Sandy Silt is soil type in area nearby

TABLE 4-5
RAINFALL/RUNOFF VALUES

2-Year, 24-Hour Rainfall		Soil Group	Designation	
(inches)	A	В	С	۵
Less than 1.0	ļ	o	2	3
1.0 to less than 1.5	0	1	2	3
1.5 to less than 2.0	0	2	3	4
2.0 to less than 2.5	1	2	3	4
.5 to less than 3.0	2	3	4	4
.0 to less than 3.5	, 2	3	4	5
.5 or greater	3	4	(5)	6

Rainfall Frey Aslus

TABLE 4-6
RUNOFF FACTOR VALUES

		Rainfa	ll/Rur	noff Va	lue	
0	1	2	3	4	5	6
0	0	0	1	1	1	1
0	0	1	1	2	3	4
0	0	1	3	7	11	15
0	1	2	7	17	25	25
	0	0 0	0 1 2	0 1 2 3 0 0 0 1 0 0 1 1 0 0 1 3	0 1 2 3 4  0 0 0 1 1  0 0 1 1 2  0 0 1 3 7	0 0 0 1 1 1 1 0 0 0 1 1 3 7 11

TABLE 4-7
DISTANCE TO SURFACE WATER FACTOR VALUES

Distance	Assigned Value
Less than 100 feet	25
100 feet to 500 feet	. 20
Greater than 500 feet to 1,000 feet	16
reater than 1,000 feet to 2,500 feet	9
reacer than 2,500 feet to 1.5 miles	6
reater than 1.5 miles to 2 miles	3

Runoff flows > 0.25 mile = 1340 feet

TABLE 4-9
FLOOD FREQUENCY FACTOR VALUES

Floodplain Category	Assigned Value	
Source floods annually	50	
Source in 10-year floodplain	50	
Source in 100-year floodplain	25	T-1: -61
Source in 500-year floodplain	<b>O</b>	Estimated based on
None of above	0	topo

SI TABLE 9 (From HRS Table 4-14): DILUTION-WEIGHTED POPULATION VALUES FOR POTENTIAL CONTAMINATION FOR SURFACE WATER MIGRATION PATHWAY

Nearest Intake 20 2 0	0 0	1 to 10 4 0.4	11 10 30 17 2	31 to 100 53	101 to 300 164	to l	1,001 10 3,000 1,633	10,000 5,214	10,001 to 30,000 16,325	Pop. Value
0	0	0.4	2 ·		164	522	1,633	5,214	16,325	44104
0				5	16	52	163			
	0	0.04	^ ^		1		1	521	1,633	
0			0.2	0.5	2	5	16	52	163	-
1	0	0.004	0.02	0.05	0.2	0.5	2	5	16	
0	0	0	0.002	0.005	0.02	0.05	0.2	0.5	2	
0	0	0	0	0.001	0.002	0.005	0.02	0.05	0.2	<del></del>
0	0	0	0.002	0.005	0.02	0.05	0.2	0.5	2	
0	0	0	0	0.001	0.002	0.005	0.02	0.05	0.2	
0	0	0	0	0	0.001	0.003	0.008	0.03	0.08	
10	0	2	9	26	82	261	817	2,607	8,163	
	0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0.001 0 0 0 0.002 0.005 0 0 0 0 0 0.001 0 0 0 0 0 10 0 2 9 26	0       0       0       0       0.001       0.002         0       0       0       0.002       0.005       0.02         0       0       0       0       0.001       0.002         0       0       0       0       0.001       0.002         10       0       2       9       26       82	0       0       0       0       0.001       0.002       0.005         0       0       0       0.002       0.005       0.02       0.05         0       0       0       0.001       0.002       0.005         0       0       0       0.001       0.002       0.005         0       0       0       0       0.001       0.003         10       0       2       9       26       82       261	0       0       0       0.002       0.002       0.005       0.02         0       0       0       0.002       0.005       0.02       0.05       0.02         0       0       0       0.001       0.002       0.005       0.02         0       0       0       0.001       0.002       0.005       0.02         0       0       0       0.001       0.002       0.005       0.02         10       0       2       9       26       82       261       817	0       0       0       0       0.001       0.002       0.005       0.02       0.05         0       0       0       0.002       0.005       0.02       0.05       0.2       0.5         0       0       0       0.001       0.002       0.005       0.02       0.05         0       0       0       0.001       0.002       0.005       0.02       0.05         0       0       0       0       0.001       0.002       0.005       0.02       0.05         10       0       2       9       26       82       261       817       2,607	0       0       0       0       0.001       0.002       0.005       0.02       0.05       0.2         0       0       0       0.002       0.005       0.02       0.05       0.2       0.5       2         0       0       0       0.001       0.002       0.005       0.02       0.05       0.2         0       0       0       0.001       0.002       0.005       0.02       0.05       0.2         0       0       0       0       0.001       0.003       0.008       0.03       0.08         10       0       2       9       26       82       261       817       2,607       8,163

Nointakes

References \_\_\_\_\_

C-25

PALENJEHAND

#### SURFACE WATER PATHWAY

#### Human Food Chain Actual Contamination Targets Summary Table

On SI Table 10, list the hazardous substances detected in sediment, aqueous, sessile benthic organism tissue, or fish tissue samples (taken from fish caught within the boundaries of the observed release) by sample ID and concentration. Evaluate fisheries within the boundaries of observed releases detected by sediment or aqueous samples as Level II, if at least one observed release substance has a bioaccumulation potential factor value of 500 or greater (see SI Table 7). Obtain benchmark, cancer risk, and reference dose concentrations from SCDM. For FDAAL benchmarks, determine the highest percentage of benchmark obtained for any substance. For cancer risk and reference dose, sum the percentages for the substances listed. If benchmark, cancer risk, or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate this portion of the fishery as subject to Level I concentrations. If the percentages are less than 100% or all are N/A, evaluate the fishery as a Level II target.

#### Sensitive Environment Actual Contamination Targets Summary Table

On SI Table 11, list each hazardous substance detected in aqueous or sediment samples at or beyond wetlands or a surface water sensitive environment by sample ID. Record the concentration. If contaminated sediments or tissues are detected at or beyond a sensitive environment, evaluate the sensitive environment as Level II. Obtain benchmark concentrations from SCDM. For AWQC/AALAC benchmarks, determine the highest percentage of benchmark of the substances detected in aqueous samples. If benchmark concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage equals or exceeds 100%, evaluate that part of the sensitive environment subject to Level I concentrations. If the percentage is less than 100%, or all are N/A, evaluate the sensitive environment as Level II.

	30,001		Number of	People	
Type of Surface Water Bodyb	to 100,000	100,001 to 300,000	300,001	1,000,001	3,000,001
Minimal stream (< 10 cfs)			1,000,000	3,000,000	10,000,000
Small to moderate stream (10 to 100 cfs)	52,137	163,246	521,360	1,632,455	
Hoderate to large stream (> 100 to 1,000 cfs)	5,214	16,325	52,136	163,245	5,213,590
Large stream to river (> 1,000 to 10,000 cfs)	. 521	1,633	5,214	16,325	521,359
Large river (> 10,000 to 100,000 cfs)	52	163	521	1,632	52,136
Very large river (> 100,000 cfs)	5	. 16	52	163	5,214
Shallow ocean zone or Great Lake (depth < 20 feet)	0.5	2	5	16	521
Moderate ocean zone or Great Lake (depth 20 to 200 feet)	5	16	52	163	52
Deep zone or Great Lake depth > 200 feet)	0.5	2	5	16	521
-mile mixing zone in uiet flowing river	0.3	1	3	8	52
≥ 10 cfs)	26,068	81,623	260,680		26

aRound the number of people to nearest integer. weighted population value to nearest integer. Do not round the assigned dilution-

٥

bTreat each lake as a separate type of water body and assign it a dilution-weighted population value using the surface water body type with the same dilution weight from Table 4-13 as the lake. If drinking water is withdrawn from coastal tidal water or the ocean, assign a dilution-weighted population value to it using the surface water body type with the same dilution weight from Table 4-13 as the coastal tidal water or the ocean

0
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ishery ID:	San		AL CONTAMI			Level II	References	
Sample ID	Hazardous Substance	Conc. (mg/kg)	Benchmark Concentration (FDAAL)	% of Benchmark	Cancer Risk Concentration.	% of Cancer Risk Concentration	RID	% of RID
			Highest Percent		Sum of Percents		Sum of Percents	
	: SENSITIVE ENVI							ue
Sample ID	Hazardous Substance	Conc (μg/L)	Benchmark Concentration (AWQC or AALAC)	% of Benchmark	References	_		
						<del>-</del>		
\#*			Highest			  		
Environment II	): Sa	ımple Type	Percent	Leve	all	Level II	Environment V	alue
Sample ID	Hazardous Substance	Conc., (μg/L)	Benchmark Concentration (AWQC or AALAC)	% of Benchmark	References			
			Highest			<del></del>		

# SURFACE WATER PATHWAY (continued) HUMAN FOOD CHAIN THREAT WORKSHEET

			Data		
HUMAN FOOD CHAIN THREAT		Score	Type	Refs	
Record the water body type and t	low for each lishery within the	}	1		
target distance limit. If there is no	fishery within the target				
distance limit, assign a score of 0	at the bottom of this page.	1_	1		•
Cinna Nama Vall 3 14/202 Carl	Fig. 200 sta	141565	Water	Resal	rces
Fishery Name Yellow Water Body_	Plow 323 CIS	TUSGS Morri	J To I	المحادرة مأ	,
Species Production	lbs/yr	1,,000	7 /6/		
Species Production				i	
Died		ll	1,0		1
Fishery Name T. J. Water Body	Flow 10-100 cts	estimat	ed to	postrat	n topo
Creek		aso	uned	1.5H	ent us
Species Production	lbs/yr			1 1	đ
Species Production	lbs/yr			j ;	
Fishery Name Tod. Water Body  Species Production  Species Production  Water Body  Fishery Name pond Water Body  Species Production	5 4 A	0-1:006	11 G.	1, -a H	_
Fishery Name pow Water Body	Flow_270_cts	estimare	1100		
Spacing Bradustina	lh-4.c	assur	peck	TIE M	ry us
Species Production_ Species Production_	ibs/yr				U
SpeciesFloduction_			1 1	1	
				-	
FOOD CHAIN INDIVIDUAL			1 1	1	
. 555 5. 5. 5. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	į		1 1	- 1	
7. ACTUAL CONTAMINATION FISHE	RIES:				
	1		1	1	
If analytical evidence indicates that			1 1		
a hazardous substance with a bioac				- 1	
or equal to 500 (SI Table 10), assign		,	}	}	•
Level I fishery. Assign 45 if there is	a Level II fishery, but no Level				
l fishery.	1				
B. POTENTIAL CONTAMINATION FIS	urnice.				
B. POTENTIAL CONTAMINATION FISH	nenico:			1	
If there is a release of a substance w	ith a bioaccumulation factor		l		
greater than or equal to 500 to a wat	The state of the s	i	}	1	
within the target distance limit, but the			- 1		
fisheries, assign a score of 20.				`	
			1		
If there is no observed release to the	watershed, assign a value	1		ļ	
for potential contamination lisheries				}	
the lowest flow at all fisheries within t	he target distance limit:			İ	
		1	1	İ	
Lowest Flow	FCI Value	. ]	1	]	
<10 ds	20	Į	1		
10 to 100 cfs	2	1	- 1	}	
>100 cfs, coastal tidal waters,					
oceans, or Great Lakes	0		1	1	
3-mile mixing zone in quiet	10		1	1	
flowing river					
	FOL Value	20	1	1	
	FCI Value =				
•	SUM OF TARGETS T =	20			

# SURFACE WATER PATHWAY (continued) ENVIRONMENTAL THREAT WORKSHEET

When measuring length of wetlands that are located on both sides of a surface water body, sum both frontage lengths. For a sensitive environment that is more than one type, assign a value for each type.

FNV	IRONMENT	'AI TI	REAT TARGE	-T9				Score	Data Type	Refs		
S If	Record the wa ensitive envi there is no s	ater bod ronment ensitive	y type and flow for within the target environment with the bottom of the	r each sui distance ( nin the tag	see S	I Table 12	).		1,725			
Enviro	nment Name		Water Body Typ	9	Fk	ow			1	1		
						c(	14			}		
						ct	74		1	ſ		
			-			cf						
	<del></del>	<del></del> .	<del></del>			cf	s					
sa en site	mpling data ovironment ha e, record this	or direct is been informa	TON SENSITIVE observation indice exposed to a hazetion on SI Table 1 and (SI Tables 13)	ate any se ardous su 1, and as	ensitive Ibstan	e ice from th	е					
Environ	ment Name		nment Type and SI Tables 13 & 14)	Multiplier Level I, 1 Level II)		Product						
					_	]		i		l		
<del>-</del>				x			1				•	
	<del></del>			x	=		.∥					
			•	x	_		1		Ì	- 1		
							1			1		
				X	=		4			1		
10. PO	TENTIAL CO	IIMATN	NATION SENSITI	VE ENVIF	RONM	Sum = ENTS:	-				,	
							.]		mo	enda	agered pla ound in County	nt
bw	Dilution Weig (SI Table 12)	ht	Environment Type Value (St Tables 1	and P	ot. ont.	Product			2000	:05	and on	
	0.1		75			سرو ۵	1		7		7. 1	
cfs	0.7	×	75	x 0	.1 =	0.75	1		New	ton 1	-out of	
cfs		x		. x 0.	1 =				was	accur	, iea v	_
-4-						•	[	1	42 H	0 10C	ak	
cfs		×		x 0.	1 =				874 A	~ 1 H	le low-t	lou
cfs		×		x 0.	1 =				one	~	water bo	d.e
-4-									Sert	ace 1		,
cfs		X I		x 0.	1 = _	Sum =	1	0.75	on		satheray	-
	<del></del>							/ 00	014	ough	. the ex	ac
Fod	angered	တ္.	- ( '3 Sunia (			T =		.00	1		f this	
	Im.	A all	( 'S SUNTA C	2					locat	TO THE	1 -7-11	
	- /1 /16							برک	ec.ee	is is	unknou 1 Book	н )
				C-29	)			· う		0	12.1	
								150	t. =	rec	x 1000	

#### SI TABLE 13 (HRS TABLE 4-23): SURFACE WATER AND AIR SENSITIVE ENVIRONMENTS VALUES

	ASSIGNED
OF VOLTIVE SAME ON VICTOR	VALUE
SENSITIVE ENVIRONMENT	100
Critical habitat for Federal designated endangered or threatened species	100
Marine Sanctuary	İ
National Park	i
Designated Federal Wilderness Area	
Ecologically important areas identified under the Coastal Zone Wilderness Act	İ
Sensitive Areas identified under the National Estuary Program or Near Coastal	
Water Program of the Clean Water Act	
Critical Areas identified under the Clean Lakes Program of the Clean Water Act	
(subareas in lakes or entire small lakes)	
National Monument (air pathway only)	
National Seashore Recreation Area	
National Lakeshore Recreation Area	
Habitat known to be used by Federal designated or proposed endangered or threatened species	75
National Preserve	
National or State Wildlife Refuge	
Unit of Coastal Barrier Resources System	
Coastal Barrier (undeveloped)	
Federal land designated for the protection of natural ecosystems	İ
Administratively Proposed Federal Wilderness Area	. 1
Spawning areas critical for the maintenance of fish/shellfish species within a	}
river system, bay, or estuary	-
Migratory pathways and feeding areas critical for the maintenance of	
anadromous fish species within river reaches or areas in lakes or coastal	
tidal waters in which the fish spend extended periods of time	ł
Terrestrial areas utilized by large or dense aggregations of vertebrate animals	i
(semi-aquatic foragers) for breeding	[
National river reach designated as recreational	. 1
Habitat known to be used by State designated endangered or threatened species	50
Habitat known to be used by a species under review as to its Federal endangered	j
or threatened status	İ
Coastal Barrier (partially developed)	1
Federally designated Scenic or Wild River	1
State land designated for wildlife or game management	25
State designated Scenic or Wild River	!
State designated Natural Area	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	
State designated areas for the protection of maintenance of aquatic life under the Clean Water	5
Ac!	·
Wetlands See SI Table 14 (Surface Water Pathway) or SI Table 23 (Air Pathway)	

# SI TABLE 14 (HRS TABLE 4-24): SURFACE WATER WETLANDS FRONTAGE VALUES

Total Length of Wetlands	Assigned	Value
Less than 0.1 mile	. 0	•
0.1 to 1 mile	25	
Greater than 1 to 2 miles	50	
Greater than 2 to 3 miles	75	
Greater than 3 to 4 miles	100	
Greater than 4 to 8 miles	150	
Greater than 8 to 12 miles	250	
Greater than 12 to 16 miles	350	
Greater than 16 to 20 miles	450	
Greater than 20 miles	500	

### SI TABLE 12 (HRS Table 4-13): SURFACE WATER DILUTION WEIGHTS

Type of Surface Water Body							
Descriptor	Flow Characteristics	Weight					
Minimal stream	< 10 cfs	1					
Small to moderate stream	10 to 100 cfs	0.1					
Moderate to large stream	> 100 to 1,000 cfs	0.01					
Large stream to river	> 1,000 to 10,000 cfs	0.001					
Large river	> 10,000 to 100,000 cfs	0.0001					
Very large river	> 100,000 cfs	0.00001					
Coastal tidal waters	Flow not applicable; depth not applicable	0:001-					
Shallow ocean zone or Great Lake	Flow not applicable; depth less than 20 feet	0.001-					
Moderate depth ocean zone or Great Lake	Flow not applicable; depth 20 to 200 feet	10-000+					
Deep ocean zone or Great Lake	Flow not applicable; depth greater than 200 feet	0.000005					
3-mile mixing zone in quiet flowing river	10 cfs or greater	0.5					

# SURFACE WATER PATHWAY (concluded) WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY

WASTE CHARAC	TERISTICS					Score	
If an Actual Concentration of environment of the calculated how whichever is great the calculated the calculate	10						
12- Assign the highes 12- Table 3 (no obser characterization fa hazardous waste characteristics so	WC Score (	rom Table)					
	Substance Val	ue	HWQ		Product	(Maximum-o	
Drinking Water Threat Toxicity/Persistence	10,000	x	10	-	100,'000	18	MAK 7 180
Food Chain Threat Toxicity/Persistence Bioaccumulation	5× 10 8	x	10	-	5×109	.180	max . ius
Environmental Threat Ecotoxicity/Persistence/ Ecobioaccumulation	5×108	x	10	-	5x109	180	MC- = 1000
Product  0 >0 to <10 10 to <100 100 to <1,000 1,000 to <10, 10,000 to <16 1E + 05 to <16 1E + 06 to <16 1E + 08 to <16 1E + 09 to <16 1E + 10 to <16 1E + 11 to <16 1E + 12 or gre	000 + 05 + 06 + 07 + 08 + 09 + 10 + 11 + 12		WC Score 0 1 2 3 6 10 18 32 56 100 180 320 560 1000				

SURFACE WATER PATHWAY THREAT SCORES

Threat	Likelihood of Release (LR) Score	Targets (T) Score	Pathway Waste Characteristics (WC) Score (determined above)	Threat Score  LR x T x WC  82,500
<b>Drinking</b> Water	170	5	.18	(maximum of 100)
Human Food Chain	170	20	180	(maximum of 100) 7. 42
Environmental	170	1	180	(maximum of 60) 0.37

SURFACE WATER PATHWAY SCORE (Drinking Water Threat + Human Food Chain Threat + Environmental Threat)

(maximum of 100) 7, 98

#### SOIL EXPOSURE PATHWAY

If there is no observed contamination (e.g., ground water plume with no known surface source), do not evaluate the soil exposure pathway. Discuss evidence for no soil exposure pathway.

Soil Exposure Resident Population Targets Summary

For each property (duplicate page 35 as necessary):

If there is an area of observed contamination on the property and within 200 feet of a residence, school, or day care center, enter on Table 15 each hazardous substance by sample ID. Record the detected concentration. Obtain cancer risk, and reference dose concentrations from SCDM. Sum the cancer risk and reference dose percentages for the substances listed. If cancer risk or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate the residents and students as Level I. If both percentages are less than 100% or all are N/A, evaluate the targets as Level II.

### SI TABLE 15: SOIL EXPOSURE RESIDENT POPULATION TARGETS

Residence ID:			Level I			Population		
Sample ID	Hazardous Substance	Canc. (mg/kg)	Cancer Risk Concentration	% of Cancer Risk Conc.	RID	% of RID	Toxicity Value	References
			Highest Percent		Sum of Percents		Sum of Percents	
Residence ID:_			Level I	Level	11	Population		
Sample ID	Hazardous Substance	Conc. (mg/kg)	Cancer Risk Concentration	% of Cancer Risk Conc.	RíD	% of RfD	Toxicity Value	References
			Highest Percent		Sum of Percents		Sum of Percents	
Residence ID:			Levell	Leve	ol II	Population		
Sample ID	Hazardous Substance	Conc. (mg/kg)	Cancer Risk Concentration	% of Cancer Risk Conc.	RID	% of RID	Toxicity Value	References
			Highest Percent		Sum of Percents		Sum of Percents	

## SOIL EXPOSURE PATHWAY WORKSHEET RESIDENT POPULATION THREAT

LWELWOOD OF EXPOSURE	C	Data	0-4-	
1. OBSERVED CONTAMINATION: If evidence indicates presence of		Туре	Refs	]
observed contamination (depth of 2 feet or less), assign a score of 550; otherwise, assign a 0. Note that a likelihood of exposure score of 0 results in a soil exposure pathway score of 0.	550		ass	imption
LE =	550		<b>!</b>	1 .
TARGETS	<u> </u>	<b></b> 4		
2. RESIDENT POPULATION: Determine the number of people				
living or attending school or day care on a property with an area of observed contamination and whose	]		ļ	
residence, school, or day care center, respectively, is on or within 200 feet of the area of observed contamination.	1			
Level I: people x 10 =		1 1	1	
Level II: people x 1 = Sum =				
3. RESIDENT INDIVIDUAL: Assign a score of 50 if any Level I				
resident population exists. Assign a score of 45 if there are Level II targets but no Level I targets. If no resident population exists (i.e.,				
no Level I or Level II targets), assign 0 (HRS Section 5.1.3).		1	1	
4. WORKERS: Assign a score from the table below for the total		`		
number of workers at the site and nearby facilities with areas of			curde	ent property
observed contamination associated with the site.  Number of Workers Score			11000	a linkari
Number of Workers Score	5	1	J	e unnowr
1 to 100	2		1-104	workers
101 to 1,000 10		- 1	assun	ned for
>1.000 15			wor	ent property e unknown workers ned for st-case
5. TERRESTRIAL SENSITIVE ENVIRONMENTS: Assign a value for each terrestrial sensitive environment (SI Table 16) in an area of				
observed contamination.				
	ł			
Terrestrial Sensitive Environment Type Value	ront	ノート		
			- 1	
			ļ	
	1	1	1	
			1	
Sum =	[			
6. RESOURCES: Assign a score of 5 if any one or more of the		+		
following resources is present on an area of observed	į			
contamination at the site; assign 0 if none applies.	1		-	
Commercial agriculture				
<ul> <li>Commercial silviculture</li> <li>Commercial livestock production or commercial livestock</li> </ul>		l		
grazing		- 1	1	
Total of Targets T=	5			

# SI TABLE 16 (HRS TABLE 5-5): SOIL EXPOSURE PATHWAY TERRESTRIAL SENSITIVE ENVIRONMENT VALUES

TERRESTRIAL SENSITIVE ENVIRONMENT	ASSIGNED VALUE
Terrestrial critical habitat for Federal designated endangered or threatened species	100
National Park	
Designated Federal Wilderness Area National Monument	<u> </u>
Terrestrial habitat known to be used by Federal designated or proposed threatened or endangered species National Preserve (terrestrial) National or State terrestrial Wildlife Refuge Federal land designated for protection of natural ecosystems	<b>75</b>
Administratively proposed Federal Wilderness Area Terrestrial areas utilized by large or dense aggregations of animals (vertebrate species) for breeding	
Terrestrial habitat used by State designated endangered or threatened species Terrestrial habitat used by species under review for Federal designated endangered or threatened status	50
State lands designated for wildlife or game management State designated Natural Areas Particular areas, relatively small in size, important to maintenance of unique biotic communities	25

# SOIL EXPOSURE PATHWAY WORKSHEET NEARBY POPULATION THREAT

LIKELIHOOD OF EXPOSURE		S∞re	Oata Type	Ref.
7. Attractiveness/Accessibility (from SI Table 17 or HRS Table 5-6) Value	10			
Area of Contamination (from SI Table 18 or HRS Table 5-7)  Value	20			
Likelihood of Exposur (from SI Table 19 or HF				
note: if there is no area of observed contaminations,	LE =	5		

TA	RGETS	S∞re	Data Type	Ref.	
8.	Assign a score of 0 if Level I or Level II resident individual has been evaluated or if no individuals live within 1/4 mile travel distance of an area of observed contamination. Assign a score of 1 if nearby population is within 1/4 mile travel distance and no Level I or Level II resident population has been evaluated.	1		Top	0
9.	Determine the population within 1 mile travel distance that is not exposed to a hazardous substance from the site (i.e., properties that are not determined to be Level I or Level II); record the population for each distance category in SI Table 20 (HRS Table 5-10). Sum the population values and multiply by 0.1.	3.6		GE	ms
•	Τ =	4.6 =	(5)	)	•

#### SI TABLE 17 (HRS TABLE 5-6): ATTRACTIVENESS/ACCESSIBILITY VALUES

Area of Observed Contamination	Assigned Value
Designated recreational area	100
Regularly used for public recreation (for example, vacant lots in urban area)	75
Accessible and unique recreational area (for example, vacant lots in urban area)	75
Moderately accessible (may have some access improvements—for example, gravel road) with some public recreation use	50
Slightly accessible (for example, extremely rural area with no road improvement) with some public recreation use	25
Accessible with no public recreation use	10
Surrounded by maintained fence or combination of maintained fence and natural barriers	5
Physically inaccessible to public, with no evidence of public recreation use	0

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# SI TABLE 18 (HRS TABLE 5-7): AREA OF CONTAMINATION FACTOR VALUES

Total area of the areas of observed contamination (square feet)	Assigned Value
≤ to 5,000	5
> 5,000 to 125,000	(20)
> 125,000 to 250,000	40
> 250,000 to 375,000	60
> 375,000 to 500,000	80
> 500,000	100

Facility on 1,5-acre lot (SI Form, p.3)
$$1.5 \times 43,560 = \left[ 65,340 \right. f^{2} \right]$$

SI TABLE 19 (HRS TABLE 5-8): NEARBY POPULATION LIKELIHOOD OF EXPOSURE FACTOR VALUES

AREA OF CONTAMINATION		ATTRA	CTIVENESS/A	CCESSIBILIT	Y FACTOR VA		
FACTOR VALUE	100	7 5	5 0	2 5	(10)	5 5	0
100	500	500	375	250	125	50	0
. 80	500	375	250	125	50	25	
60	375	250	125	50	25	5	
4 0	250	125	50	25	5	5	
(20)	125	50	25	5	(5)	5	
5	50	25	5	5	5	5	

SI TABLE 20 (HRS TABLE 5-10): DISTANCE-WEIGHTED POPULATION VALUES FOR NEARBY POPULATION THREAT ٠.4

Travel Distance	]				Nui	mber o	1 peopl	e with	n the tra	vel dista	nce cated	0.LV		
Category (miles)	Рор.	0	1 10 10	1 1 10 3 0	31 10 100	101 10 300	10	1,001 to 3,000	3,001 to	10,001 to 30,000	30,001 lo	100,001 to 300,000	300,001 to 1,000,000	Pop
Greater than 0 to $\frac{1}{4}$	557	0	0.1	0.4	1.0	4	(13)	41	130	408	1,303	4,081	13,034	/3
Greater than $\frac{1}{4}$ to $\frac{1}{2}$	1,671	0	0.05	0.2	0.7	2	7	20	65	204	652	2,041	6,517	20
Greater than $\frac{1}{2}$ to 1	677	0	0.02	0.1	0.3	1	3	10	33	102	326	1,020	3,258	20

sum = 36

#### SOIL EXPOSURE PATHWAY WORKSHEET (concluded)

WASTE CHARACTERISTICS	
10. Assign the hazardous waste quantity score calculated for soil exposure HRS Section 5-1-2-2 and HRS Table 5-2.	10
11. Assign the highest toxicity value for the soil exposure pathway from SI Table 3 or 15	10,000
12. Multiply the toxicity and hazardous waste quantity scores. Assign the Waste Characteristics score from the table below:    Product   WC Score	wc = 18
RESIDENT POPULATION THREAT SCORE: 550x 5 x 18  (Likelihood of Exposure, Question 1; LEXTXWC Targets = Sum of Questions 2, 3, 4, 5, 6)  82,500	0.60
NEARBY POPULATION THREAT SCORE:  5x5x/8  (Likelihood of Exposure, Question 7;  Targets = Sum of Questions 8, 9)  82,500	0.01
SOIL EXPOSURE PATHWAY SCORE: Resident Population Threat + Nearby Population Threat	0 · 6 / (Maximum of 100)

#### AIR PATHWAY

Air Pathway Observed Substances Summary Table

On SI Table 21, list the hazardous substances detected in air samples of a release from the site. Include only those substances with concentrations significantly greater than background levels. Obtain benchmark, cancer risk, and reference dose concentrations from SCDM. For NAAQS/NESHAPS benchmarks, determine the highest percentage of benchmark obtained for any substance. For cancer risk and reference dose, sum the percentages for the substances listed. If benchmark, cancer risk, or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage or the percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate targets in the distance category from which the sample was taken and any closer distance categories as Level I. If the percentages are less than 100% or all are N/A, evaluate targets in that distance category and any closer distance categories that are not Level I as Level II.

#### SI TABLE 23 (HRS TABLE 6-18): AIR PATHWAY VALUES FOR WETLAND AREA

# SI TABLE 24: DISTANCE WEIGHTS AND CALCULATIONS FOR AIR PATHWAY POTENTIAL CONTAMINATION SENSITIVE ENVIRONMENTS

Welland Area	Assigned Value
<.1 acre	0
(1 to 50 acres	25
> 50 to 100 acres	75
> 100 to 150 acres	125
> 150 to 200 acres	175
> 200 to 300 acres	250
> 300 to 400 acres	350
> 400 to 500 acres	450
> 500 acres	500

The ranges of several
and an acred speces
include Newton County and the entire Stak
and the entire state
of Georgia; however,
exact locations of these
species are unknown.
Species

Ì	Distance	Sensitive Environment Type and	
Distance	Weight	Value (from SI Tables 13 and 207 23	Product
On a Source	0.10	х	
,		x	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
0 to 1/4 mile	0.025	x	<del></del>
}	4	x	· <del></del>
		x	· · · · · · · · · · · · · · · · · · ·
1/4 to 1/2 mile	0.0054	x	
	•	x	
		x	
1/2 to 1 mile	0.0016	x	
		X	
• 1		x	
1 to 2 miles	0.0005	× 25 (wetlands)	0.01
	<b>\</b>	x	
		х	
2 to 3 miles	0.00023	x	
	1	х .	
		X	
3 to 4 miles	0.00014	x 500 (wetlands)	0.0
1		X	
		x	
1 <u> </u>	0	X	

Approximately 700 acres of wellands

are located 3-4 miles from site and approximately 25 acres

of wellands are 1-2 miles from site

# SI TABLE 22 (From HRS TABLE 6-17): VALUES FOR POTENTIAL CONTAMINATION AIR TARGET POPULATIONS

		Nearest		Number of People within the Distance Category											
Distance from Site	Рор.	Individual (choose highest)	1 10 10	11 10 30	31 to 100	101 10 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to	30,001 to 100,000	100,001 to 300,000	300,001	1,000,000 lo	Рор.
· source	0	20	4	17	53	164	522	1,633	5,214	16,325	52,137	163,246	1,000,000 521,360	3,000,000 1,632,455	Value
O to 1/4 mile	<i>55</i> 7	20.	1	4	13	41	131	408	1,304	4,081	13,034	40,812	130,340	408,114	13
$> \frac{1}{4}$ to $\frac{1}{2}$	1,671	2 .	0.2	0.9	3	9	28	88	282	882	2,815	8,815	28,153	88,153	
> ½ to 1	677	1	0.06	0.3	0.9	3	8	26	83	261	834	2,612	8,342	26,119	82
> 1 to 2 miles	4,582	0	0.02	0.09	0.3	0.8	3	8	(27)	83	266	833	2,659	8,326	8
> 2 to 3 miles	13,479	0	0.009	0.04	0.1	0.4	1	4	12	(38)	120	375	1,199		27
>3 to 4 ,,,	8,198	0 .	0.005	0.02	0.07.	0.2	0.7	2	(7)	28	73			3,755	38
	Nearest dividual =	20		<u> </u>	l	l	l		10		'3	229	730	2,285	7

References GEMS

29.9

<sup>\*</sup> Score = 20 if the Nearest Individual is within  $\frac{1}{8}$  mile of a source; score = 7 if the Nearest Individual is between  $\frac{1}{8}$  and  $\frac{1}{4}$  mile of a source.

### SI TABLE 21: AIR PATHWAY OBSERVED RELEASE SUBSTANCES

_	Sample ID:		Le		ivel II	Distance from S	ources (mi)	References	
	Hazardous Substance	Conc. (µg/m³)	Gaseous Paniculate	Benchmark Conc. (NAAOS or NESHAPS)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RID	% of RID
	1	Highest Toxicity/ Mobility		Highest Percent		Sum of Percents		Sum of Percents	
_	Sample ID:		Le		evel 11	Distance from S	Sources (ml)	References	
?	Hazardous Substance	Conc. (μg/m³)	Toxicity/ Mobility	Benchmark Conc. (NAAQS or NESHAPS)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RID	% of RID
3									
ł		Highest Toxicity/ Mobility		Highest Percent		Sum of Percents		Sum of Percents	
	Sample ID:		L	evelll	evel II	Distance from	Sources (ml)	References	
	Hazardous Substance	Conc. (μg/m³)	Toxicity/ Mobility	Benchmark Conc. (NAAQS or NESHAPS)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RID	% of RID
	į	Highest Toxicity/ Mobility		Highest Percent		Sum of Percents		Sum of Percents	

COMMENTIAL

#### AIR PATHWAY WORKSHEET

		Data		
LIKELIHOOD OF RELEASE	Score	Type	Refs	<b>-</b>
1. OBSERVED RELEASE: If sampling data or direct observation		1	J	
support a release to air, assign a score of 550. Record observed			l	
release substances on SI Table 21.		<u> </u>	ļ	4
2. POTENTIAL TO RELEASE: If sampling data do not support a		1.	1	1 / -
release to air, assign a score of 500. Optionally, evaluate air		No	Sam	pling
migration gaseous and particulate potential to release (HRS	500	ا ما	1	14.40
Section 6.1.2).	•	CO	nau	ted
	500	1		
LR =	500	1		
TARGETS				_
3. ACTUAL CONTAMINATION POPULATION: Determine the number				]
of people within the target distance limit subject to exposure from a		1 1		i
release of a hazardous substance to the air.	1	1 1		
	1	ii		1
a) Level I: people x 10 =			00	sampling
a) Level I: people x 10 = b) Level II: people x 1 = Total =		1		' 0
			•	
4. POTENTIAL TARGET POPULATION: Determine the number of				
people within the target distance limit not subject to exposure from		1	.	
a release of a hazardous substance to the air, and assign the total	20.0		CF	ms
population score from SI Table 22. Sum the values and multiply the	29.9		0,0	
sum by 0.1.		İ	i	
5. NEAREST INDIVIDUAL: Assign a score of 50 if there are any Level				
I targets. Assign a score of 45 if there are Level II targets but no			7	00
Level I targets. If no Actual Contamination Population exists, assign	20	1	10	00
the Nearest Individual score from SI Table 22.		]	)	•
6. ACTUAL CONTAMINATION SENSITIVE ENVIRONMENTS: Sum				
the sensitive environment values (SI Table 13) and wetland			1	
acreage values (SI Table 23) for environments subject to exposure				
from the release of a hazardous substance to the air.		i i		
nom the release of a nazaroous substance to the air.			Į.	
Sensitive Environment Type Value	j	j	}	
Obligation Committee Commi			ļ	,
	Ì	İ		ampling
		1	70 P	
		İ	1	U
Wetland Acreage Value				
		i		
	1			
	İ			
	į	l		
7. POTENTIAL CONTAMINATION SENSITIVE ENVIRONMENTS:	0		tople	Book
Use SI Table 24 to evaluate sensitive environments not subject to	0.08		0.1	Book
exposure from a release.			200	2040
3. RESOURCES: Assign a score of 5 if one or more air resources	İ			
apply within 1/2 mile of a source; assign a 0 if none applies.		]		
Commercial agriculture	5			
Commercial silviculture	ا ک	}	l	
Major or designated recreation area				
	-1100			
τ = [	54.98=			

#### AIR PATHWAY (concluded)

WASTE CHARACTERISTICS

AIR PATHWAY SCORE:

9.	If any Actual Contamination Ta assign the calculated hazardor of 100, whichever is greater, if Targets for the air pathway, ass sources available to air migration	is waste quantity so there are no Actua sion the calculated I	core or a score I Contamination	10	
10.	Assign the highest air toxicity/n	nobility value from S	SI Table, 21.	10,000	
11.	Multiply the air pathway toxicity/ quantity scores. Assign the Wa table below:  Product 0 >0 to <10 10 to <100 100 to <1,000 1,000 to <10,000 10,000 to <1E + 05 1E + 05 to <1E + 06 1E + 06 to <1E + 07 1E + 07 to <1E + 08 1E + 08 or greater	WC Score  WC Score  0 1 2 3 6 10 18 32 56 100	score from the	wc = /8	

500 × 55 × 18

LR x T x WC 82,500 . 00 (maximum of 100)

SITE SCORE CALCULATION	S	S <sup>2</sup>
GROUND WATER PATHWAY SCORE (SGW)	7.04	1.0816
SURFACE WATER PATHWAY SCORE (Saw)	7.98	63.68
SOIL EXPOSURE (SS)	0.61	0.37
AIR PATHWAY SCORE (SA)	6.00	36.00
SITE SCORE $\sqrt{\frac{S_{GW}^2 + S_{SW}^2 + S_S^2 + S_A^2}{4}}$		5.03

COMM	ERTO
	Based on the low HRS score and the removal
-	of waste which took place in 1988,
	Dynamac Corporation recommends no
Taxan (Marin Law) or	Dynamac Corporation recommends no further action for Spectrum Printing